VISTA**SOLUTIONS**

vista-cctv.com

VISTA
VK2

Introduction

As the largest CCTV supplier in the UK, Vista is dedicated to delivering the best of breed IP video and analogue products to market. Our dedicated team of engineers is continually working with the latest technologies to ensure we are consistently delivering great products.

Established over 25 years ago and with a collective industry experience within the team of over 250 years - we not only pride ourselves on the technical capabilities of our products, but also firmly believe in offering the best possible customer experience. To this end, we strive to make Vista products as simple to use as possible whilst continuing to deliver exceptional performance.

With this experience, we have a long tradition of providing an extensive range of analogue and IP video products to the CCTV markets both in the UK and across the world. Today, Vista products are sold onto over 77 countries across 5 continents.

If you'd like to discuss any of your requirements with us in person, then we'd love to hear from you.

The Vista Team

Flexibility by Design™

Vista Van - Mobile demonstration facility

TIME TO BRING CCTV INTO TOP GEAR WITH THE VISTA VAN

Vista realise that when it comes to demonstrating CCTV equipment to customers, the hardest part is establishing the products' performance in-situ. For this reason we have invested heavily in demonstration vehicles that allow you to take products right to their doorstep.

Come day or night, rain or shine, the Vista van is on hand to help demonstrate a vast selection of cameras, domes, DVRs, monitors, number plate recognition solutions and transmission equipment.

As well as taking the installer and end user through the various security solutions onboard, Vista can also offer tips and advice on how to get the very best images for the end user's specific environment.

The on-board generator provides stand-alone operation, with air-conditioning and seating for up to six people in the back. Packed full of the latest Vista products, the vans allow customers to actually see the products functioning, at the site in which they would be installed.

OVERVIEW OF BENEFITS

- **View from the top**
  Each van has a telescopic mast, extending to 5m. This allows footage to be captured on-site, encompassing the actual field of view the customer is interested in. This allows the customer to see exactly what issues may affect the image and how the cameras could be positioned to give the best possible coverage.
- **Day/night images**
  It's important for your customer to be able to see images in the context of their environment. Issues such as street lighting, or no ambient lighting at all, can affect the quality of images they receive. The vans can be positioned on-site and the cameras can be set-up to show what measures can be taken to ensure good quality images are captured.
- **An integrated solution**
  Because each of the vans carries entire solutions from the camera to the recording software, your customer will be able to see how all the parts of a system work together.
- **Capturing the action**
  VNPR (Vehicle Number Plate Recognition) cameras can be set up from the van to record vehicles entering and leaving the site. A full demonstration can be carried out including how the software interprets the data and analyses the results.

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VK2 E-Series

OVERVIEW

The E-Series is our most popular IP product range, providing a careful balance between price and performance. All cameras offer 1080p HD broadcast quality video and are available in a wide range of form factors making them suitable for most internal or external project requirements.

SPECIFICATION

- Full HD 1080p resolution
- Triple HD streaming
- Vista Event Boost™ technology
- Multiple form factors
- Fixed and Varifocal lens options
- IR illumination*
- Power over Ethernet
- ONVIF Profile-S Compliant
- Includes free recording software

**Model Specific*

E-Series

Camera Type	VK2-1080VRDIR35V16e	VK2-1080VRDIR37e	VK2-1080XVRD3V9e	VK2-1080BIR35V16e	VK2-1080BIR37e	VK2-1080VFDIR37E	VK2-1080XVFD3V9e/ WCB	VK2-1080XBXDNe	VK2-ENCODER
Product Code	**0696630**	**0697120**	**0750070**	**0696250**	**0690130**	**0690140**	**07501110**	**0750140**	**0471760**
Sensor	1/2.8" Sony CMOS	1/2.8" Sony CMOS	1/2.8" Sony CMOS	1/2.8" Sony CMOS	1/2.8" Sony CMOS	1/2.8" Sony CMOS	1/2.8" Sony CMOS	1/2.8" Sony CMOS	-
Lens	3.5-16mm megapixel F1.2	3.7mm megapixel F1.8	3-9mm megapixel F1.2	3.5-16mm megapixel F1.2	3.7mm megapixel F1.8	3.7mm megapixel F1.8	3-9mm, megapixel F1.2	Sold Separately	-
Operation	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	-
IR Illumination	20m	15m	-	20m	15m	15m	-	-	-
Min Illumination	Colour 1.0Lux, B/W 0.0Lux IR on	Colour 0.2Lux, B/W 0.0Lux IR on	Colour 0.9Lux, B/W 0.2Lux	Colour 1.0Lux, B/W 0.0Lux IR on	Colour 0.2Lux, B/W 0.0Lux IR on	Colour 0.2Lux, B/W 0.0Lux IR on	Colour 0.9Lux, B/W 0.2Lux	Colour 0.9Lux, B/W 0.2Lux @ F1.2	-
Max Resolution (HxV)	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	704x576
Frame Rate	30ips	30ips	60ips	30ips	30ips	30ips	60ips	60ips	25ips
Video Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG
No of Streams	3	3	3	3	3	3	3	3	2
WDR	-	-	120dB	-	-	-	120dB	120dB	-
Privacy Mask	✓	✓	✓	✓	✓	✓	✓	✓	✓
Motion Detection	✓	✓	✓	✓	✓	✓	✓	✓	✓
Boost Function	✓	✓	✓	✓	✓	✓	✓	✓	-
BLC	✓	✓	✓	✓	✓	✓	✓	✓	-
Alarms	-	-	In x 1 / Out x 1	-	-	-	In x 1 / Out x 1	In x 1 / Out x 1	In x 2 / Out x 1
Software Triggers	4	4	4	4	4	4	4	4	4
Audio In and Out	-	-	✓	-	-	-	-	✓	✓
On-Board Storage	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺	-
Network Port	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
PoE	IEEE 802.3af Class 0	IEEE 802.3af Class 0	IEEE 802.3af Class 0	IEEE 802.3af Class 0	IEEE 802.3af Class 0	IEEE 802.3af Class 0	IEEE 802.3af Class 0	IEEE 802.3af Class 0	N/A
Power	12VDC, 6W	12VDC, 6W	12VDC, 4.7W	12VDC, 6W	12VDC, 6W	12VDC, 6W	12VDC, 4.7W	12VDC, 5.5W	12/24V, 5W
IP Rating	IP66	IP66	IP66	IP65	IP67	IP30 (Internal)	IP30 (Internal)	Requires housing	IP20 (Internal)
Vandal Resistant	✓ (Built to IK10)	✓	✓ (Built to IK10)	-	-	-	-	-	-
ONVIF Support	Profile-S	Profile-S	Profile-S	Profile-S	Profile-S	Profile-S	Profile-S	Profile-S	Profile-S

FOR BRACKETRY, SEE PAGE 62

⁺ Up to 32GB, Class 6 or above (not included)

VK2 F-Series

OVERVIEW

The F-Series offers a carefully selected range of cameras that feature remote lens set up or PTZ functionality. The intelligent lens ensures optimum video quality at all times of day and night by automatically adjusting their focus on day/night switching. F-Series cameras also include WDR, alarm inputs and outputs along with 2 way audio capabilities.

SPECIFICATION

- Motorised Smart Focus or PTZ lens
- Alarm input
- Bi-directional audio
- Full HD 1080p resolution
- Triple HD streaming
- Vista Event Boost™ technology
- 120dB WDR*
- 60 Images per second*
- Multiple form factors
- IR illumination*
- Power over Ethernet
- ONVIF Profile-S Compliant
- Includes free recording software

**Model Specific*

Camera Type	VK2-1080XIRPTZF	VK2-1080XPTZ	VK2-1080XVRDPTZF	VK2-1080XVRDIR3V9F	VK2-1080BIR3V9F	VK2-1080XVFD3V9F/WCB
Product Code	**0692070**	**0698610**	**0750000**	**0750080**	**0474560**	**0750100**
Sensor	1/2.8" Sony Exmor CMOS	1/2.8" Sony Exmor CMOS	1/2.8" Sony Exmor CMOS	1/2.8" Sony Exmor CMOS	1/2.8" Sony CMOS	1/2.8" Sony Exmor CMOS
Lens	30:1 (4.3-129mm) / 16x digital	30:1 (4.3-129mm) / 16x digital	12:1 (4.8-57.6mm) / 12x digital	3-9mm, F1.2 Motorised	3-9mm, Motorised	3-9mm, F1.2 Motorised
Operation	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
IR Illumination	Sychronised IR LED, 100m	-	-	20m	15m	-
Min. Illumination	Colour: 0.5Lux B/W: 0Lux (F1.2, 50IRE with IR On)	Colour: 0.5Lux B/W: 0.1Lux	Colour: 0.5Lux B/W: 0.1Lux	Colour: 0.4Lux B/W: 0Lux (F1.2, 50IRE, IR On)	Colour: 0.2Lux B/W: 0Lux (F1.2, 50IRE with IR On)	Colour: 0.9Lux B/W: 0.2Lux
Max Resolution (HxV)	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Remote-Focus	-	-	-	✓	✓	✓
Frame Rate	60ips	60ips	60ips	60ips	30ips	60ips
Triple Streaming	H.264(x2), MJPEG(x1)	H.264(x2), MJPEG(x1)	H.264(x2), MJPEG(x1)	H.264(x2), MJPEG(x1)	H.264(x2), MJPEG(x1)	H.264(x2), MJPEG(x1)
WDR (dB)	DWDR	DWDR	DWDR	120dB	-	120dB
Privacy Mask	8	8	8	8	8	8
Motion Detection	16 areas	16 areas	16 areas	16 areas	16 areas	16 areas
BLC	✓	✓	✓	✓	✓	✓
Event Buffering	Yes (10s/60s)	Yes (10s/60s)	Yes (10s/60s)	Yes (10s/60s)	-	Yes (10s/60s)
Cross Web Browser	Safari, Firefox, Google Chrome	Safari, Firefox, Google Chrome	Safari, Firefox, Google Chrome	Safari, Firefox, Google Chrome	Safari, Firefox, Google Chrome	Safari, Firefox, Google Chrome
FTP Image Upload	✓	✓	✓	✓	✓	✓
NAS Support	✓	✓	✓	✓	-	✓
JPEG Push	✓	✓	✓	✓	✓	✓
Alarm	In x 4 / Out x 1	In x 4 / Out x 1	In x 4 / Out x 1	In x 1 / Out x 1	-	In x 1 / Out x 1
Audio	In x 1 / Out x 1 (G.711)	In x 1 / Out x 1 (G.711)	In x 1 / Out x 1 (G.711)	In x 1 / Out x 1 (G.711)	-	In x 1 / Out x 1 (G.711)
Pre-recorded Voice Alert	3 files	3 files	3 files	3 files	-	3 files
On-Board Storage	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺	Micro SD⁺
Network Port	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
PoE	PoE (Injector)	802.3af Class0	802.3af Class0	802.3af Class0	802.3af Class2	802.3af Class0
Power	PoE+ (28W), 12VDC (28W)	PoE, 12/24V (12.8W)	PoE, 12/24V (12W)	PoE, 12/24V (7.5W)	PoE, 12VDC (7.2W)	PoE, 12VDC (5W)
IP Rating	IP66	IP66 (With VDM-EXTHSG)	IP66	IP66	IP66	IP30 (Internal)
Vandal Resistant	✓ (Built to IK10)	-	✓ (Built to IK10)	✓ (Built to IK10)	✓ (Built to IK10)	-
ONVIF	Profile-S	Profile-S	Profile-S	Profile-S	Profile-S	Profile-S

FOR BRACKETRY, SEE PAGE 62 & 64

⁺ Up to 32GB, Class 6 or above (not included)

VK2 3MPF-Series

OVERVIEW

The 3MPF-Series offers a 3 Megapixel selection of cameras which feature remote lens functionality. The intelligent lens ensures optimum video quality at all times of day and night by automatically adjusting their focus on day/night switching.

SPECIFICATION

- 3MP resolution
- Motorised Smart Focus lens
- Alarm input*
- Bi-directional audio*
- Triple HD streaming
- Vista Event Boost™ technology
- 60ips
- IR illumination
- Power over Ethernet
- ONVIF Profile-S Compliant
- Includes free recording software

Camera Type	VK2-3MPVRDIR3V9F	VK2-3MPBIR3V9F
Product code	0750060	0750050
Sensor	1/2.8" Sony Exmor CMOS	1/2.8" Sony Exmor CMOS
Lens	3-9mm, F1.2 Motorised	3-9mm, F1.2 Motorised
Operation	True Day/Night	True Day/Night
IR Illumination	20m	25m
Min. Illumination	Colour: 0.5Lux, B/W: 0Lux(F1.2, 50IRE, IR On)	Colour: 0.5Lux, B/W: 0Lux (F1.2, 50IRE with IR On)
Max Resolution (HxV)	2144x1588	2144x1588
Remote-Focus	✓	✓
Frame Rate	3MP@20ips, 1080p @30ips	3MP@20ips, 1080p @30ips
Video Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG
Triple Streaming	H.264(x2), MJPEG(x1)	H.264(x2), MJPEG(x1)
WDR	DWDR	DWDR
Privacy Mask	8	8
Motion Detection	16 areas	16 areas
BLC	✓	✓
AE/AWB	✓	✓
DNR	2 DNR	2DNR
Video Out	Via phono jack	Via phono jack
Event Buffering	Yes (10s/60s)	Yes (10s/60s)
Cross Web Browser	Safari, Firefox, Google Chrome	Safari, Firefox, Google Chrome
Network Time Sync	✓	✓
Max. Connections	10	10
Alarm	In x 1 / Out x 1	-
Audio	In x 1 / Out x 1 (G.711)	-
On-Board Storage	Micro SD+	Micro SD+
Nework Port	10/100Mbps	10/100Mbps
PoE	802.3af Class0	802.3af Class0
Local Power	PoE, 12/24V (7.4W)	PoE, 12VDC (7.6W)
IP Rating	IP66	IP66
Vandal Resistant	✓ (Built to IK10)	✓ (Built to IK10)
ONVIF	Profile-S	Profile-S

FOR BRACKETRY, SEE PAGE 62

+ Up to 32GB, Class 6 or above (not included)

VK2 W-Series

OVERVIEW

The W-Series offers PoE and wireless connectivity in a variety of compact designs. All cameras offer HD quality video and are available in a number of form factors for both internal and external applications.

SPECIFICATION

- Wireless and cabled connectivity
- Up to full HD 1080p resolution
- Triple HD streaming
- Vista Event Boost™ technology
- Multiple form factors
- Power over Ethernet*
- ONVIF Profile-S Compliant
- Compatible with Vista wireless NVR
- Pan/Tilt model available
- Includes free recording software

Camera Type	VK2-1080MD37PTW	VK2-1080MD37W	VK2-2MPCCW
Product Code	**0680430**	**0657100**	**0474680**
Wireless	Built-in IEEE 802.11b/g/n wireless LAN, WEP, WPA2, WPA-PSK, WPS (Software WPS set up) (B/G/M)	Built-in IEEE 802.11b/g/n wireless LAN, WEP, WPA2, WPA-PSK, WPS (Software WPS set up) (B/G/M)	Built-in IEEE 802.11b/g/n wireless LAN, WEP, WPA2, WPA-PSK, WPS (Software WPS setup) (B/G/M)
Sensor	1/2.8" Sony CMOS	1/2.8" Sony CMOS	1/4" Sony CMOS
Lens	3.7mm, F1.8	3.7mm, F1.8	2.6mm, F1.8
Operation	Software Day/Night	Software Day/Night	Colour
Min Illumination	0.2Lux	0.2Lux	0.6Lux
Resolution (HxV)	1920x1080	1920x1080	1600x1200
Max Frame Rate	30ips	30ips	12ips
Video Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG
Triple Streaming	H.264(x2), MJPEG(x1)	H.264(x2), MJPEG(x1)	3
Privacy Mask	✓	✓	✓
Motion Detection	✓	✓	✓
Boost Function	✓	✓	✓
Remote Pan/Tilt	✓	-	-
BLC	✓	-	-
Alarms	In x 1 / Out x 1	In x 1 / Out x 1	-
Software Triggers	4	4	4
On-Board Storage	Micro SD*	Micro SD*	Micro SD*
Network Port	10/100Mbps	10/100Mbps	10/100Mbps
PoE	IEEE 802.3af Class 0	IEEE 802.3af Class 0	-
Power	12VDC (6W)	12VDC (6W)	5VDC (3W)
IP Rating	IP65	IP30 (Internal)	IP30 (Internal)
Vandal Resistant	IK09	-	-
ONVIF Support	Profile-S	Profile-S	Profile-S

** Up to 32GB, Class 6 or above (not included)*

qulu VMS

Google play Available on the App Store

Enter a new era of power, performance and freedom with Vista's new Video Management Software (VMS), qulu. Designed to offer the most efficient performance on the market today, this revolutionary software allows users to interact with video like never before.

KEY FEATURES/BENEFITS

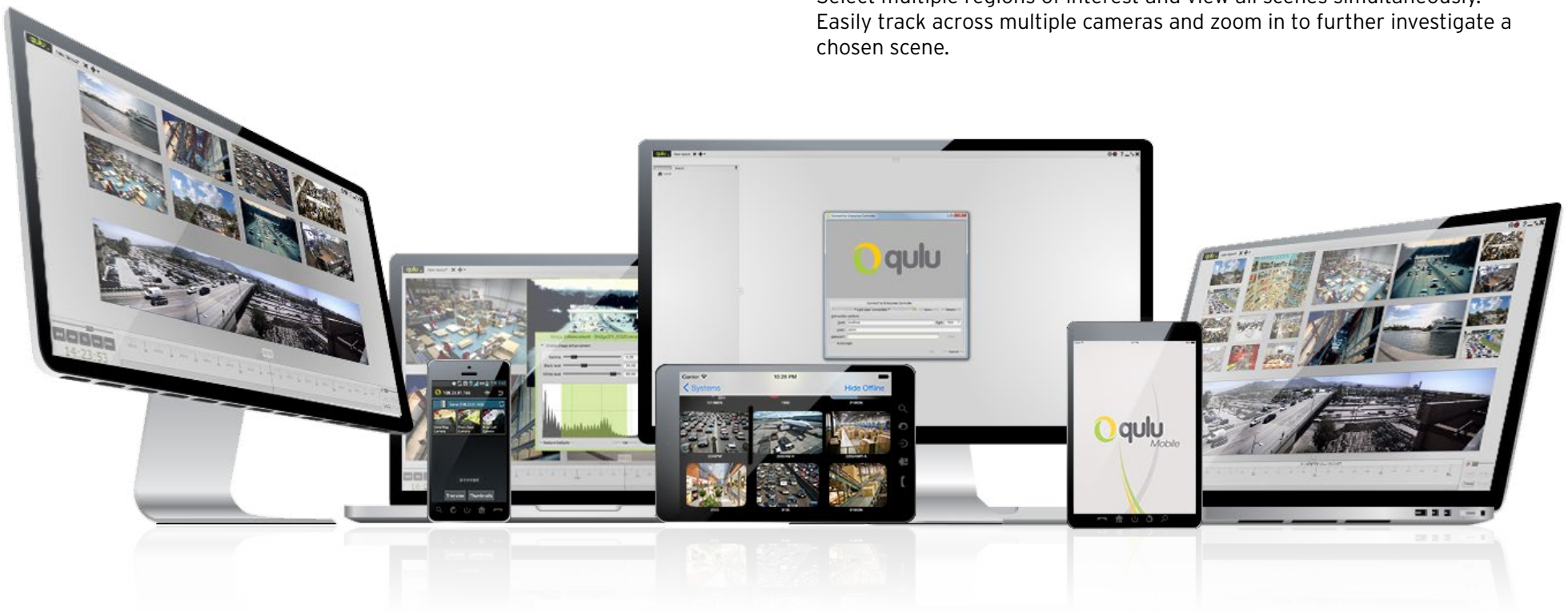
Supports 3rd party cameras, including fisheye cameras
qulu provides choice and flexibility when it comes to choosing the right camera for your project, with support of over 300 cameras and encoders from brands such as Arecont, Axis, Pelco, Samsung, Sony, Vivotek and Vista VK2.

Our own fisheye 360° dewarping technology dewarps video from almost any fisheye camera, allowing the ability to generate multiple camera views from a single camera. This unique feature provides unprecedented levels of live and recorded interrogation.

Support for Windows, Linux and Apple Mac operating systems
Customers can use the operating system they're most comfortable with. Most competitors can't offer this level of flexibility and functionality.

Simple pricing structure
No base license, no client license, no annual support fees, no upgrade charges. We believe this is the simplest video system on the market to specify.

Interrogate live and recorded video
Select multiple regions of interest and view all scenes simultaneously. Easily track across multiple cameras and zoom in to further investigate a chosen scene.



FISHEYE CAMERAS

INTERROGATE A SCENE

POWERFUL SEARCH FUNCTION

Quick, simple search function
Search intelligently by highlighting an area on screen – qulu will display any motion events in that area within seconds.

Small, easily downloadable software packages
Download and install qulu before most other VMS packages have even downloaded. Ideal for areas with limited internet access as often found on-site.

Self monitoring for system optimisation
qulu constantly monitors all aspects of the system, including CPU, memory, network and hard drives. The software will automatically alert users to any weaknesses and intelligently compensate to reduce load on the system.

Reduced cost of ownership
Save money on hardware due to the requirement for fewer system resources compared to other VMS packages on the market.

30 day free download
Vista is so confident that you'll be blown away by qulu, we're providing a 30 day free trial of the software. Download your copy from **www.vista-cctv.com/product/qulu**.

Request a demo
To truly understand the power of the software, why not benefit from one of our experts via a demonstration. These can either take place in our fully stocked demo rooms, or at a location convenient to you.

Online video
It doesn't take long to understand the power and flexibility that qulu offers. Our brief, **online video** will give you a great introduction to the software and why it's unique on the market.

SOFTWARE LICENCES

Type of license	Part no.	Description
L01-QULU-001	0480800	1 camera licence code for qulu
L01-QULU-010	0480810	10 camera licence code for qulu
L01-QULU-020	0480820	20 camera license code for qulu
L01-QULU-050	0480850	50 camera licence code for qulu
L01-QULU-100	0480900	100 camera license code for qulu
L01-QULU-WALL	0480910	Video wall license

qulu VMS v2.3

KEY FEATURES/BENEFITS

Automatic Failover
Should a server on a qulu system fail, the cameras will be immediately transferred to available servers within the system. Once the failed server is repaired and becomes available again, the cameras will return to their original server.

Video Wall / Remote Monitor
Users can control an unlimited number of video wall/remote monitors in real-time from a connected client machine.

Video Wall is a licensed feature per user wanting to control the video wall.

One-Click System-Wide Upgrades
System administrators can upgrade an entire system (all servers and clients in a system, regardless of operating system or device type) to a newer version or to a specific build from any client connected to the system.

No Single Point Of Failure - Server Clustering
All servers in a system continuously synchronise system configuration settings creating a reliable cluster of servers - and creating a system that allows operators to connect to any server at any time to view the entire system. This, in turn, creates a system capable of adapting to server failures in real-time and ensures no single point of failure.

Integration With Paxton Access Control
Video from qulu can be linked to events in the Paxton Access Control system. Video footage can be viewed directly from within the Paxton software interface.

OTHER FEATURES

Edge
The qulu server can now be installed and run on virtually any ARM device - including micro computers (Raspberry Pi, Banana Pi) and edge cameras. This means the server can run on small low-cost boxes, or even without any dedicated server!

Universal Fisheye Dewarping
The system now supports fisheye dewarping on any type of fisheye lens - including panamorph (elliptical) lenses.

Web Based Camera Settings
Version 2.3 now includes the ability to view the camera's native web page inside the camera settings dialog. This feature is currently available on selected camera models and works over both LAN and WAN connections.

Web Admin Redesign
There is a brand new web administration client with added features including server health monitoring, restart servers, change System ID, port, login and password, join to other systems, and server storage configuration.

Simplified System Expansion
In version 2.3 it is now possible to join different systems in one go, rather than separately. Servers/system can now be merged with few clicks in the system client or web administration interface.

One Network Port For Everything
With version 2.3 network traffic is now directed through a single port on each server (default 7001), making power configuration much simpler.

qulu Servers

OEM Partner

MICROSERVER OVERVIEW

A small, quiet and stylishly designed server that is an ideal solution for supporting up to 32 IP cameras and 12TB of storage onboard. Designed to allow easy accessibility and simple set up, it helps businesses drive down their expenses while continuing to provide the same great qulu experience.

QULU 1 SERIES OVERVIEW

Delivers the right balance of performance, storage, reliability, manageability and efficiency in a dense and compact rack mount chassis. Designed to meet the needs of a diverse set of customers wanting to manage up to 128 IP cameras with up to 24TB of storage onboard.

QULU 2 SERIES OVERVIEW

Provides ample storage in a 2U rack mount chassis to meet the needs of a diverse set of customers wanting to manage up to 128 IP cameras requiring larger storage requirements of up to 66TB built-in.

SERVERS

Product Name	Product Code	Format	CPU	Memory	Cameras Managed	Storage	Storage (after RAID 5)	Network Cards	Max Camera Throughput	Warranty*	Operating System and qulu
qulu-SM-6TB	0750300	MicroServer	Intel Celeron	2GB	32	6TB	Mirror Only (RAID 1)	2 x 1Gbit	580Mbits	3 Year NBD	120GB reserved for OS & qulu
qulu-SM-12TB	0750310	MicroServer	Intel Celeron	2GB	32	12TB	Mirror Only (RAID 1)	2 x 1Gbit	580Mbits	3 Year NBD	120GB reserved for OS & qulu
qulu-SR1-12TB	0750320	1U	Intel Xeon	8GB	128	12TB	9TB	2 x 1Gbit	1000Mbits	3 Year NBD	120GB reserved for OS & qulu
qulu-SR1-24TB	0750330	1U	Intel Xeon	8GB	128	24TB	18TB	2 x 1Gbit	1000Mbits	3 Year NBD	120GB reserved for OS & qulu
qulu-SR2-33TB	0750340	2U	Intel Xeon	8GB	128	33TB	30TB	2 x 1Gbit	1000Mbits	3 Year NBD	Dedicated 120GB SSD for OS & qulu
qulu-SR2-44TB	0750350	2U	Intel Xeon	8GB	128	44TB	40TB	2 x 1Gbit	1000Mbits	3 Year NBD	Dedicated 120GB SSD for OS & qulu
qulu-SR2-66TB	0750360	2U	Intel Xeon	8GB	128	66TB	60TB	2 x 1Gbit	1000Mbits	3 Year NBD	Dedicated 120GB SSD for OS & qulu

**Warranty:*
NBD: Next Business Day (on site replacement)

UPGRADES

Product Name	Product Code	Description
qulu-SRV-ilo	0726130	iLo upgrade for email notification/remote console

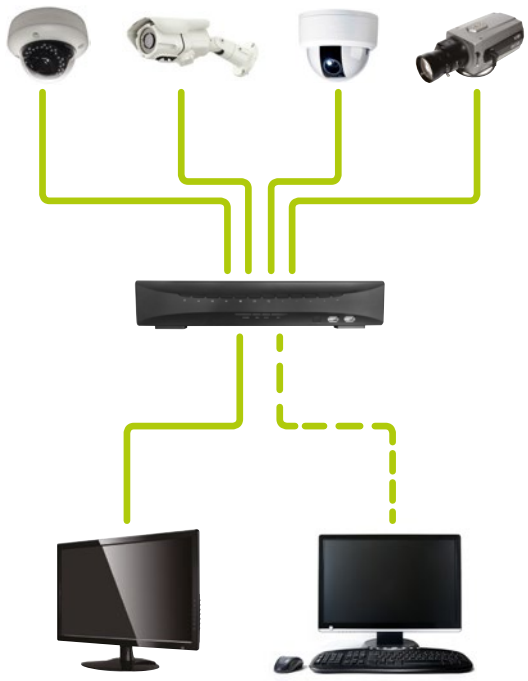
Vista IP system

SIMPLE IP SYSTEM (Up to 8 cameras)

Choose camera type - E-series ideal for smaller systems

PoE QNVR, direct connection for video and power, up to 8 cameras

QNVR can be viewed locally from direct monitor or remotely from PC and supplied software



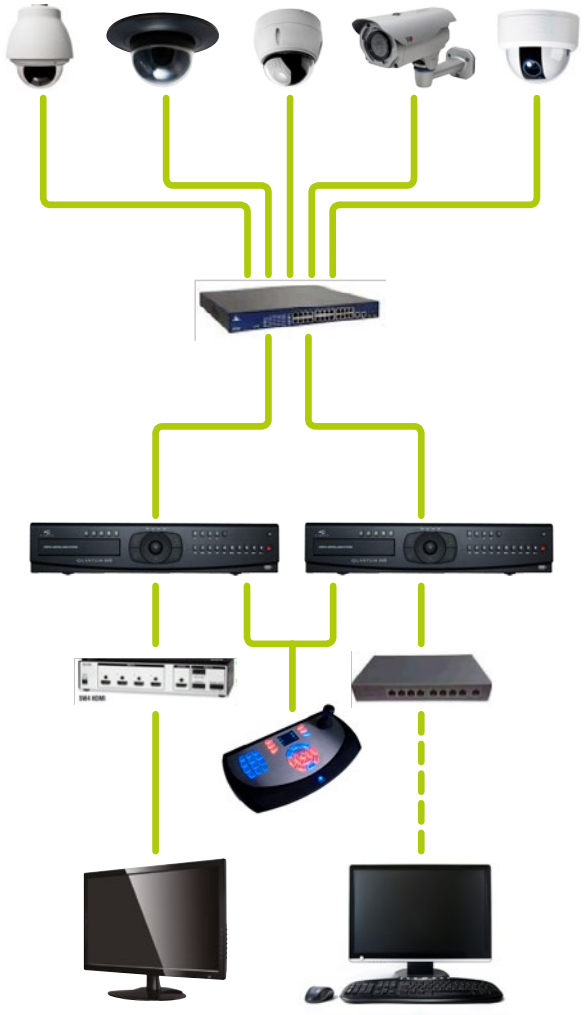
MEDIUM SIZED IP SYSTEM (Up to 64 cameras)

Choose camera type - F-series ideal for medium to large systems

PoE switch

Link up multiple QNVRs via keyboard and HDMi switch to allow single keyboard and monitor control

QNVR can be viewed locally from direct monitor or remotely from PC and supplied software



PC Clients

CLIENT PC OVERVIEW

The Vista Client PC has been designed specifically for the video surveillance market. Its powerful performance and small size make this the perfect Video Management System (VMS) viewing client.

SPECIFICATION

Processor: Intel i5 3.4GHz
Memory: 4GB
Disk Space: 120GB
Graphics: Dedicated 1GB Nvidia (Dual Monitor)
Power Requirements: 150W
Operating System: Windows 7 Pro 64bit

- Solid State OS Disk (Quick Boot)
- Tiny foot print
- Intel i5 processor
- Compatible with VK2-Client/QCMS
- Support for 3rd party VMS clients

Product Name	Product Code	Description
VistaPC-i5-120-S	0657170	Client PC with Windows 7, i5 & 120GB solid state drive

CLIENT / SERVER PC OVERVIEW

Vista's Client / Server PC has the performance and storage capacity to make it ideal for Video Management Systems.

SPECIFICATION

Processor: Intel i7 3.4GHz
Memory: 8GB
Operating System Disk Space: 120GB
Recording Disk Space: up to 21TB
Graphics: Dedicated 1GB Nvidia (Dual Monitor)
Power Requirements: 250W
Operating System: Windows 7 Pro 64bit

- Solid State OS Disk (Quick Boot)
- Up to 21TB on-board storage
- Intel i7 processor
- Compatible with VK2-Client/QCMS
- Support for 3rd party VMS clients

Product Name	Product Code	Description
VistaPC-i7SVR-9TB	0680600	Server PC Windows 7, i7, 9TB HDD
VistaPC-i7SVR-12TB	0680610	Server PC Windows 7, i7, 12TB HDD
VistaPC-i7SVR-15TB	0680620	Server PC Windows 7, i7, 15TB HDD
VistaPC-i7SVR-18TB	0680630	Server PC Windows 7, i7, 18TB HDD
VistaPC-i7SVR-21TB	0680640	Server PC Windows 7, i7, 21TB HDD

IP Monitor

OVERVIEW

Until now, IP systems have required a conventional monitor and decoder to be used, providing the user with D1 resolution images. The 24" and 32" IP networked monitors from Vista don't require a hardware decoder and can display high-definition, 1080p video from a single stream or four D1 streams from separate cameras in quad format. Extremely simple to set up, this provides higher resolution images over previous solutions of a decoder and analogue monitor. Because it's based on ONVIF, it decodes streams from 3rd party cameras – providing the user with the greatest flexibility possible.

SPECIFICATION

- 24" and 32" monitor options
- Connects direct to IP network
- Built-in 4 camera decoder
- Full screen HD display
- 4 camera full HD sequence
- 4 camera quad display – D1 resolution per camera
- Desk mount or VESA mount
- ONVIF compliant

Product Name	Product Code	Description
VFS24HDIP	0703480	24" monitor with 4ch IP decoder
VFS32HDIP	0704010	32" monitor with 4ch IP decoder

FOR BRACKETRY, SEE PAGE 65

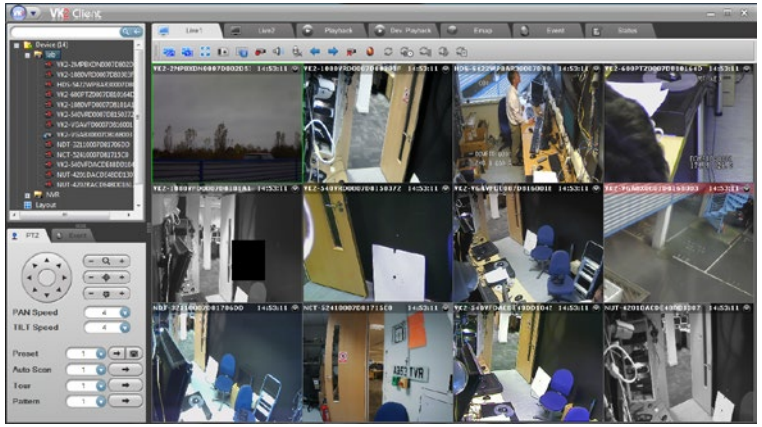
Software Packages

VK2-CLIENT OVERVIEW

VK2-Client boasts a number of features usually associated with high-end licensed Video Management Software (VMS), including viewing of up to 128 live video streams across two monitors, local recording of up to 32 video streams and interactive graphical maps.

Fully compatible with Vista VK2 cameras and the VK2 Recorders, VK2-Client provides both live and recorded video from the VK2 Recorders and/or SD card within the VK2 camera itself.

The software is supplied free of charge with all VK2 products and requires no licenses.



SPECIFICATION

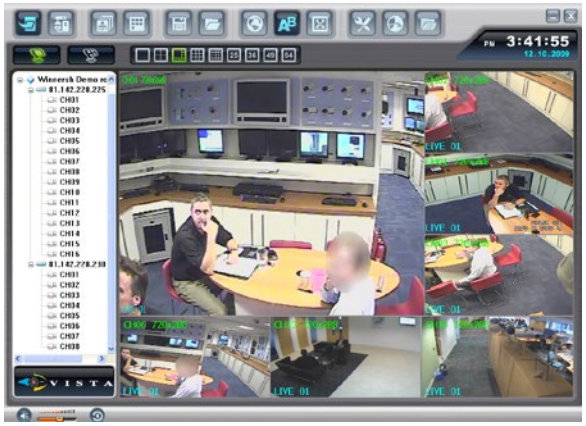
- View and record up to 32 cameras
- Access video recorded to SD card on Vista VK2 cameras
- PTZ control
- Graphical maps
- Alarm management
- Camera discovery

QCMS OVERVIEW

QCMS is a powerful VMS package supplied free of charge with every Vista Quantum NVR and analogue DVR. It allows the operator to connect to multiple units at the same time, providing the ability to display IP and analogue cameras on a single monitor.

The operator, depending on their access level, is allowed to view live images, review playback, download and archive video, control PTZ cameras and configure the settings on the NVRs and DVRs.

Up to 64 images can be displayed on a single screen.



SPECIFICATION

- Connect to multiple Quantum 960H, XTRA, PLUS, EVO and the Quantum NVR
- Display live images from multiple units
- Review playback from multiple units
- Download archived footage
- Control telemetry pan and tilt cameras
- Configure the settings of units remotely

Network Video Recorders

OVERVIEW

Vista offer a range of NVRs, each one providing customers with flexibility and scalability. All NVRs can record HD 1080p video, offer alarm inputs and include free management software.

NVR Type	QNVR	QNVR with PoE		VK2-REC16HD	VK2-REC04HDW
No of Channels	16	4	8	16	4
Monitor Outputs	HDMI and VGA	HDMI and VGA		-	-
PoE	-	4/8		-	-
Front Panel Control	✓	✓		-	-
Remote Joystick Keyboard	✓	✓		Yes - via USB and Client	Yes - via USB and Client
Recording Frame Rates	1080p up to 160ips, 720p up to 320ips, D1 up to 640ips	1080p up to 160ips, 720p up to 320ips, D1 up to 640ips		Up to 400ips at all resolutions up to 1080p	Max 100ips @ 1920x1080 Ethernet, Max 100ips @ 704x576 Wireless
Video Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG		H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG
Max Internal Hard Drive Storage	Up to 16TB	Up to 8TB		Up to 12TB	Up to 3TB
Camera Compatibility	VK2 cameras and other ONVIF Profile-S static cameras	VK2 cameras and other ONVIF Profile-S static cameras		All VK2 cameras	All VK2 cameras
Archiving Options	DVD/USB or Client	USB or Client		VK2-Client	VK2-Client
Recording Throughput	64Mbps per network port	64Mbps per network port		64Mbps per network port	16Mbps
Network Ports	3 (Cameras, PC and NAS)	3 (Cameras, PC and NAS)		2 (Cameras and PC)	1
Alarm Inputs	16	4	8	2	8
Alarm Outputs	4	1		2	8
Seamless Stream Switching	✓	✓		-	-
eSATA Output	✓	-		✓	-
NAS Output	✓	-		-	-
Software Supplied	QNVR, QCMS and browser	QNVR, QCMS and browser		VK2-Client and browser	VK2-Client and browser
Mobile Apps	Q-Remote, iOS and Android	Q-Remote, iOS and Android		VK2-Remote, iOS and Android	VK2-Remote, iOS and Android
Power	100-240VAC, 50/60Hz, 100W	NVR-12VDC/3.5A, PoE 48VDC (12W per channel)		100-240VAC, 50/60Hz, 70W	12VDC, 5A, 60W
Dimensions (WxDxH)	450x370x90mm	352x252x71mm		570x245x560mm	190x60x255mm
Weight	5Kg	3Kg		8.9Kg	1.3Kg
WiFi Camera Connection	-	-		-	Integrated 2.4GHz 802.11 B/G/N with WPS support
Approvals	CE RoHS2: 2011/65/EU	CE RoHS2: 2011/65/EU		CE RoHS2: 2011/65/EU	CE RoHS2: 2011/65/EU

Network Video Recorders (Continued)

QNVR (16 Channel)

Product Name	Product Code	Description
QNVR-03TB	0690520	16ch Quantum HD NVR 3TB
QNVR-06TB	0690530	16ch Quantum HD NVR 6TB
QNVR-09TB	0690540	16ch Quantum HD NVR 9TB
QNVR-12TB	0690550	16ch Quantum HD NVR 12TB
QNVR-16TB	0703470	16ch Quantum HD NVR 16TB
Rack mount kit	0704360	Quantum Rack mount kit (Not PoE QNVR)

QNVR PoE (4 & 8 Channel)

Product Name	Product Code	Description
QNVR-04P-1TB	0703220	4ch Quantum HD PoE NVR 1TB
QNVR-04P-3TB	0703230	4ch Quantum HD PoE NVR 3TB
QNVR-08P-1TB	0703240	8ch Quantum HD PoE NVR 1TB
QNVR-08P-3TB	0703250	8ch Quantum HD PoE NVR 3TB
QNVR-08P-6TB	0703260	8ch Quantum HD PoE NVR 6TB

VK2-REC16HD (16 Channel)

Product Name	Product Code	Description
VK2-REC16HD3	0656330	16ch VK2 HD NVR 3TB
VK2-REC16HD6	0656340	16ch VK2 HD NVR 6TB
VK2-REC16HD9	0656350	16ch VK2 HD NVR 9TB
VK2-REC16HD12	0656360	16ch VK2 HD NVR 12TB

VK2-REC04HDW (4 Channel)

Product Name	Product Code	Description
VK2-REC04HDW1	0658370	4ch VK2 Wireless HD NVR 1TB
VK2-REC04HDW2	0658380	4ch VK2 Wireless HD NVR 2TB
VK2-REC04HDW3	0658390	4ch VK2 Wireless HD NVR 3TB

ANALOGUE CCTV

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Fixed Domes Internal - VFD 960H

HD 960H

OVERVIEW

The 12VDC VFD 960H range offers outstanding image quality, based on 960H technology to provide class leading 700TVL colour and monochrome images, which deliver a 25% increase in recorded information when used with a 960H DVR. The internal tactile switch provides access to the OSD for easy camera set-up, with 2DNR & D-WDR (ATR), BLC and Peak White Inversion ensuring that a majority of lighting conditions can be resolved. The inclusion of 8 privacy zones, which can be either colour or mosaic, ensures the privacy of the areas masked. "U" models include an NVT compatible passive UTP balun, allowing the camera to work on structured cabling networks.

SPECIFICATION

- 960H (700TVL) resolution
- 2.8-12mm 2MP varifocal lens
- Colour/Mono & True Day/Night options
- Advanced processing via OSD
- 'U' models have UTP passive balun
- 12VDC operation
- Variety of liner, bubble and case colour options

Product Name	VFD28V12CM960H-BCB	VFD28V12CM960H-BSB	VFD28V12CM960H-WCW	VFD28V12CM960H-WSB	VFD28V12CM960HU-BCB	VFD28V12CM960HU-BSB	VFD28V12CM960HU-WCW	VFD28V12CM960HU-WSB	VFD28V12DN960H-BCB	VFD28V12DN960H-WCW
Product Code	**0497790**	**0497800**	**0497820**	**0497830**	**0497840**	**0497850**	**0497860**	**0497870**	**0497880**	**0497890**
Resolution	960H	960H	960H	960H	960H	960H	960H	960H	960H	960H
Sensor	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Operation	Colour/Mono	Colour/Mono	Colour/Mono	Colour/Mono	Colour/Mono	Colour/Mono	Colour/Mono	Colour/Mono	True Day/Night	True Day/Night
Lens Type	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)
Sensitivity	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25/0.02Lux @F1.4	0.25/0.02Lux @F1.4
OSD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Privacy Zones	8	8	8	8	8	8	8	8	8	8
D-WDR	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)
BLC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NR (2DNR)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
UTP	-	-	-	-	✓	✓	✓	✓	-	-
Power	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)	12VDC (1.5W)
Operating Temp	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C
Case	Black	Black	White	White	Black	Black	White	White	Black	White
Bubble	Clear	Smoked	Clear	Smoked	Clear	Smoked	Clear	Smoked	Clear	Clear
Liner	Black	Black	White	Black	Black	Black	White	Black	Black	White

FOR BRACKETRY, SEE PAGE 62

Fixed Domes Internal - VFD WDR

HD 1280H

OVERVIEW

The VFD28V12WDR camera offers outstanding image quality, based on CMOS technology to provide class leading Wide Dynamic Range and exceptional 1000TVL colour and monochrome images. With a Wide Dynamic Range of up to 120dB, this camera provides balanced images - even under extreme backlighting.

Product Name	VFD28V12WDR-WCB
Product Code	0481000
Resolution	1280H
Sensor	1/3" CMOS
Operation	True Day/Night
Lens Type	2.8-12mm (2MP)
Sensitivity	0.1 / 0.5 / 0.05Lux @F1.4
OSD	✓
Privacy Zones	16
WDR	120dB
PWI	✓
3DNR	✓
Sens-up	x50
Power	12VDC (1.6W)
Operating Temp	0 to +40°C
Case	White
Bubble	Clear
Liner	Black

FOR BRACKETRY, SEE PAGE 62

The True Day/Night functionality offers low light operation with monochrome images at 0.05Lux and, with a moving IR cut filter, it can be used in conjunction with separate IR illuminators for operation in total darkness. With 12VDC operation as standard, an internal tact switch provides access to a comprehensive OSD to allow for easy camera set-up. Along with WDR, there is Peak White Inversion, 3DNR & BLC, which help to ensure that the majority of lighting conditions can be resolved. For installations whereby privacy may be an issue e.g. chip and pin machines, then up to 16 privacy zones can be programmed ensuring this information is obscured to any operator. To further enhance ease of set up there is a Focus Adjust in the OSD, which provides a graphical aid to achieve the best focus possible.

SPECIFICATION

- 1280H (1000TVL) resolution
- 2.8-12mm 2MP varifocal lens
- True Day/Night operation
- 120dB WDR
- Advanced processing via OSD
- 12VDC operation

Fixed Domes Internal - VFDA 960H

HD 960H

OVERVIEW

The 12/24VDC VFDA 960H range offers outstanding image quality, based on 960H technology to provide class leading 700TVL colour and monochrome images, which deliver a 25% increase in recorded information when used with a 960H DVR. The internal tactile switch provides access to the OSD for easy camera set-up, with 2DNR & D-WDR (ATR), BLC and Peak White Inversion ensuring that a majority of lighting conditions can be resolved. The inclusion of 8 privacy zones, which can be either colour or mosaic, ensures the privacy of the areas masked. "U" models include an NVT compatible passive UTP balun, allowing the camera to work on structured cabling networks.

SPECIFICATION

- 960H (700TVL) resolution
- 2.8-12mm 2MP varifocal lens
- Colour/Mono & True Day/Night options
- Advanced processing via OSD
- 'U' models have UTP passive balun
- 12/24V operation
- Variety of liner, bubble and case colour options

Product Name	VFDA28V12CM960H24-BSB	VFDA28V12CM960H24-WCW	VFDA28V12CM960H24-WCB	VFDA28V12CM960HU24-BSB	VFDA28V12CM960HU24-WCW
Product Code	**0498100**	**0498110**	**0498650**	**0498120**	**0498130**
Resolution	960H	960H	960H	960H	960H
Sensor	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Operation	Colour/Mono	Colour/Mono	Colour/Mono	Colour/Mono	Colour/Mono
Lens Type	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)
Sensitivity	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4	0.25Lux @F1.4
OSD	✓	✓	✓	✓	✓
Privacy Zones	8	8	8	8	8
D-WDR	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)
BLC	✓	✓	✓	✓	✓
NR (2DNR)	✓	✓	✓	✓	✓
UTP	-	-	-	✓	✓
Power	12VDC (2W) 24VAC (3W)	12VDC (2W) 24VAC (3W)	12VDC (2W) 24VAC (3W)	12VDC (2W) 24VAC (3W)	12VDC (2W) 24VAC (3W)
Operating Temp	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C
Case	Black	White	White	Black	White
Bubble	Smoked	Clear	Clear	Smoked	Clear
Liner	Black	White	Black	Black	White

FOR BRACKETRY, SEE PAGE 62

Fixed Domes Vandal Resistant - VVRD 960H

HD 960H

OVERVIEW

This vandal resistant range offers outstanding image quality, based on 960H technology to provide class leading 700TVL colour and monochrome images, which deliver a 25% increase in recorded information when used with a 960H DVR. The internal tactile switch provides access to the OSD for easy camera set-up, with 2DNR & D-WDR (ATR), BLC and Peak White Inversion ensuring that a majority of lighting conditions can be resolved. The inclusion of 8 privacy zones, which can be either colour or mosaic, ensures the privacy of the areas masked. "U" models include an NVT compatible passive UTP balun, allowing the camera to work on structured cabling networks. Built to IK10 (EN62262) and with an IP66 rating, this makes the VVRD cameras suitable for internal, external and hostile environments.

SPECIFICATION

- 960H (700TVL) resolution
- 2.8-12mm 2MP varifocal lens
- Colour/Mono, True Day/Night and True Day/Night LED options
- Up to 20m IR illumination (DNLED models)
- Advanced processing via OSD
- 'U' models have UTP passive balun
- IP66
- Built to IK10 (EN62262)
- 12/24V operation

Product Name	VVRD28V12CM960H	VVRD28V12CM960HU	VVRD28V12DN960H	VVRD28V12DN960HU	VVRD28V12DNLED960H	VVRD28V12DNLED960HU
Product Code	0497950	0497980	0497960	0497990	0497970	0498000
Resolution	960H	960H	960H	960H	960H	960H
Sensor	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Operation	Colour/Mono	Colour/Mono	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Lens Type	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)	2.8-12mm (2MP)
Sensitivity	0.25Lux @F1.4	0.25Lux @F1.4	0.25/0.02Lux @F1.4	0.25/0.02Lux @F1.4	0Lux	0Lux
IR Illumination	-	-	-	-	20m	20m
OSD	✓	✓	✓	✓	✓	✓
Privacy zones	8	8	8	8	8	8
D-WDR	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)
BLC	✓	✓	✓	✓	✓	✓
NR (2DNR)	✓	✓	✓	✓	✓	✓
UTP	-	✓	-	✓	-	✓
Power	12VDC (2W) 24VAC (3W)	12VDC (2W) 24VAC (3W)	12VDC (2W) 24VAC (3W)	12VDC (2W) 24VAC (3W)	12VDC (3.6W) 24VAC (4.1W)	12VDC (3.6W) 24VAC (4.1W)
Operating Temp	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C
IP Rating	IP66	IP66	IP66	IP66	IP66	IP66
Vandal Resistance	IK10	IK10	IK10	IK10	IK10	IK10
Colour	RAL7035	RAL7035	RAL7035	RAL7035	RAL7035	RAL7035

FOR BRACKETRY, SEE PAGE 62

Fixed Domes Vandal Resistant - VVRD WDR

HD 1280H

OVERVIEW

The VVRD28V12WDR cameras offer outstanding image quality, based on CMOS technology to provide class leading Wide Dynamic Range and exceptional 1000TVL colour and monochrome images. With a Wide Dynamic Range of up to 120dB, this camera provides balanced images - even under extreme backlighting. The true day/night functionality offers low light operation with monochrome images at 0.05Lux and with a moving IR cut filter, it can be used in conjunction with separate IR illuminators for operation in total darkness. With 12VDC operation as standard, an internal tact switch provides access to a comprehensive OSD to allow for easy camera set-up. Along with WDR, there is Peak White Inversion, 3DNR & BLC, which help to ensure that the majority of lighting conditions can be resolved. For installations whereby privacy may be an issue e.g. chip and pin machines, then up to 16 privacy zones can be programmed ensuring this information is obscured to any operator. To further enhance ease of set up there is a Focus Adjust in the OSD, which provides a graphical aid to achieve the best focus possible.

Product Name	VVRD28V12WDR	VVRD28V12WDRIR
Product Code	0481010	0481020
Resolution	1280H	1280H
Sensor	1/3" CMOS	1/3" CMOS
Operation	True Day/Night	True Day/Night
Lens Type	2.8-12mm (2MP)	2.8-12mm (2MP)
Sensitivity	0.1 / 0.5 / 0.05Lux @F1.4	0Lux
IR Illumination	-	20m
OSD	✓	✓
Privacy zones	16	16
WDR	120dB	120dB
PWI	✓	✓
3DNR	✓	✓
Sens-up	x50	x50
Power	12VDC (2.2W) 24VAC (2.7W)	12VDC (4.2W) 24VAC (4.8W)
Operating Temp	-10 to +50°C	-10 to +50°C
IP Rating	IP66	IP66
Vandal Resistance	IK10	IK10
Colour	RAL7035	RAL7035

FOR BRACKETRY, SEE PAGE 62

SPECIFICATION

- 1280H (1000TVL) resolution
- 2.8-12mm 2MP varifocal lens
- True Day/Night & IR options
- Up to 20m IR illumination (IR model)
- 120dB WDR
- Advanced processing via OSD
- IP66
- Built to IK10 (EN62262)
- 12/24V operation

Bullet Cameras - VBC

HD 960H

OVERVIEW

The Vista Bullet Camera range (VBC) offers outstanding image quality, based on 960H technology to provide class leading 700TVL colour and monochrome images, which deliver a 25% increase in recorded information when used with a 960H DVR. All VBC cameras come with integral 850nm IR LEDs for illumination, negating the need for additional lighting. An internal tactile switch on a majority of the range provides access to the OSD for easy camera set-up. With 2DNR & D-WDR (ATR), BLC and Peak White Inversion ensures that a majority of lighting conditions can be resolved. The inclusion of 8 privacy zones, which can be either colour or mosaic, ensures the privacy of the areas masked. With an IP66 rating, it makes the VBC range suitable for both internal and external applications.

SPECIFICATION

- 960H (700TVL) resolution
- 2.8-12mm & 5-50mm lens options
- Integral IR LEDs for 0Lux applications up to 50m
- Advanced processing with OSD on majority of models
- IP66
- Outboard IR LEDs on VBC-50x models for use in BS8418:2010 systems

Product Name	VBC301-960H	VBC400-960H	VBC28V12DN960H	VBC5V50DN960H	VBC502-960H	VBC503-960H
Product Code	0480740	0480750	0479740	0479730	0480160	0480170
Resolution	960H	960H	960H	960H	960H	960H
Sensor	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Operation	Software Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Lens Type	3.6m	2.8-12mm	2.8-12mm	5-50mm	2.8-12mm	5-50mm
Sensitivity	0Lux	0Lux	0Lux	0Lux	0Lux	0Lux
IR Illumination	20m	30m	50m	50m	>50m	>50m
OSD	-	-	✓	✓	✓	✓
Privacy Zones	-	-	8	8	8	8
D-WDR	-	-	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)
Smart IR	Fixed	Fixed	✓	✓	✓	✓
NR (2DNR)	Fixed	Fixed	✓	✓	✓	✓
Power	12VDC (4W)	12VDC (4W)	12VDC (5.1W) 24VAC (5.6W)	12VDC (5.5W) 24VAC (5.9W)	12VDC (8.3W) 24VAC (5.5W)	12VDC (8.3W) 24VAC (5.5W)
Operating Temp	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C
IP Rating	IP67	IP67	IP66	IP66	IP66	IP66
Vandal Resistance	-	-	IK10	IK10	-	-
Wall Bracket	3 axis	3 axis	2 axis	2 axis	3 axis	3axis
Colour	Pantone Black C	Pantone Black C	Dark Grey	Dark Grey	Pantone Black C	Pantone Black C
BS8418:2010 Compliant	-	-	-	-	✓	✓

FOR BRACKETRY, SEE PAGE 62

Box Cameras & Lenses – VPC & VDD

HD 960H

OVERVIEW

The Protos V range (VPC) offers outstanding image quality, based on 960H technology to provide class leading 700TVL colour and monochrome images, which deliver a 25% increase in recorded information when used with a 960H DVR. All VPC cameras are CS mount and have an OSD for easy camera set-up. With 2DNR & D-WDR (ATR), BLC and Peak White Inversion, this ensures that a majority of lighting conditions can be resolved. The inclusion of 8 privacy zones, which can be either colour or mosaic, ensures the privacy of the areas masked.

SPECIFICATION

- 960H (700TVL) resolution
- 1/3" CS mount
- 0.15/0.01Lux @ F1.2
- Colour/Mono or True Day/Night operation
- OSD with D-WDR (ATR), 2D-DNR, AGC, BLC, HLC (Peak White Inversion)
- Low voltage and mains options

Product Name	VPC5-700CME	VPC5-704CME	VPC5-700DNE	VPC5-704DNE
Product Code	**0479140**	**0478850**	**0479150**	**0478860**
Resolution	960H	960H	960H	960H
Sensor	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
Operation	Colour/Mono	Colour/Mono	True Day/Night	True Day/Night
Lens Mount	CS	CS	CS	CS
Lens Type	DD	DD	DD	DD
Sensitivity	0.15Lux @ F1.2	0.15Lux @ F1.2	0.15 / 0.01Lux @ F1.2	0.15 / 0.01Lux @ F1.2
OSD	✓	✓	✓	✓
Privacy Zones	8	8	8	8
D-WDR	✓ (ATR)	✓ (ATR)	✓ (ATR)	✓ (ATR)
Smart IR	-	-	✓	✓
NR (2DNR)	✓	✓	✓	✓
Power	90 - 240VAC (30W)	12VDC (2W) 24VAC (3.5W)	90 - 240VAC (30W)	12VDC (2W) 24VAC (3.5W)
Operating Temp	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C
Mounting	2 x 1/4" - 20 UNC	2 x 1/4" - 20 UNC	2 x 1/4" - 20 UNC	2 x 1/4" - 20 UNC
Colour	RAL7035	RAL7035	RAL7035	RAL7035

FOR BRACKETRY, SEE PAGE 60
FOR HOUSINGS, SEE PAGE 52

LENSES

Product Name	Product Code	Description
Standard		
VDD10V4014IRP	0098690	1/2", C, 10-40mm, F1.4-360, IR corrected, 10cm plugged lead
VDD20V10016P	0253100	1/3", CS, 20-100mm, F1.6-360, 10cm plugged lead
VDD28V114IRP	0095160	1/3", CS, 2.8-11mm, F1.4-360, IR corrected, 10cm plugged lead
VDD28V1213IRP-HR	0471000	1/3", CS, 2.8-12mm, F1.3-360, IR corrected, 23cm plugged lead, hi-res
VDD28V1214PU	0346450	1/3", CS, 2.8-12mm, F1.4-360, 10cm plugged lead
VDD29V821P	0442400	1/3", CS, 2.9-8.2mm, F1.0-360, 15cm plugged lead
VDD35V1010Pe	0256930	1/3", CS, 3.5-10.5mm, F1.0-360, 10cm plugged lead
VDD3V81IRPe	0479180	1/3", CS, 3-8mm, F1.0-360, IR corrected, 10cm plugged lead
VDD4V1212IRP	0253170	1/2", C, 4-12mm, F1.2-360, IR corrected, 10cm plugged lead
VDD5V5013Pe	0097070	1/3", CS, 5-50mm, F1.3-360, 10cm plugged lead
VDD5V5014PU	0315830	1/3", CS, 5-50mm, F1.4-360, 10cm plugged lead
VDD5V5014PU-300	0315840	1/3", CS, 5-50mm, F1.4-360, 30cm plugged lead
Megapixel		
VDD24V612P-MP	0471010	1/3", CS, 2.4-6mm, F1.2-360, 22cm plugged lead, Megapixel
VDD31V812IRP-3MP	0478870	1/2.7", CS, 3.1-8mm, F1.2-360, IR corrected, 12cm plugged lead, 3 Megapixel

Zoom Cameras - VZM

OVERVIEW

The Zoom Camera range (VZM) offers outstanding image quality, based on 960H technology to provide class leading 700TVL colour and monochrome images, which deliver a 25% increase in recorded information when used with a 960H DVR. Both VZM cameras have a 22:1 auto focus lens providing a wide angle in normal mode and then zooming in (on alarm via RS485, motion detection or alarm input). WDR provides a balanced image in higly contrasting scenes of view and the EXT model has integral IR LEDs providing upto 80m illumination.

Product Name	VZM22INT960H	VZM22EXT960H
Product Code	0480510	0480520
Resolution	960H	960H
Sensor	1/4" CCD	1/4" CCD
Operation	True Day/Night	True Day/Night
Lens	22:1 (3.9-85.8mm)	22:1 (3.9-85.8mm)
Sensitivity	0.1 / 0.01 / 0.0001Lux	0Lux
IR Illumination	-	80m
OSD	✓	✓
WDR	✓	✓
Sens-up	x512	x512
BLC	✓	✓
AGC	✓	✓
Privacy Zones	16	16
Motion Detection Zones	4	4
2 & 3DNR	✓	✓
RS485	Vista, Pelco P & D	Vista, Pelco P & D
Power	12VDC (2.5W)	12VDC (10W) 24VAC (12W)
Operating Temp	-10 to +50°C	-10 to +50°C (-30 if heater & fan connected)
IP Rating	No	IP66
Fitting	2x 1/4" - 20 UNC	3 axis wall bracket
Colour	Grey	Dark Grey

FOR BRACKETRY, SEE PAGE 60
FOR HOUSINGS, SEE PAGE 52

SPECIFICATION

- 960H (700TVL) resolution
- 22x optical zoom lens (3.9-85.8mm)
- True Day/Night operation
- OSD with Analytics, WDR, 2D/3DNR, Sens-Up, RS-485 control
- Alarm input
- Up to 80m IR illumination on EXT model

ACCESSORIES

Product Name	Product Code	Description
VZM22/REM	0350110	Local set up tool for the VZM camera (300mm long)

Fully Functional PTZ Domes – VPL7

HD 960H

OVERVIEW

Vista's range of fully functional PTZ dome cameras offer a wide range of advanced features and solutions, which makes them ideal for an extensive range of applications. The camera modules all use Sony 960H technology to deliver a superb 700TVL resolution image. The domes all operate on Vista Coax, Vista RS485, Pelco D or Pelco P telemetry protocols, making them compatible with virtually any control system on the market. The dome specifications all include, preset positioning, automatic touring, alarm inputs and other high end features.

Product Name	VPL7-WP-SM	VPL7-WP-PM
Product Code	0474550	0475010
Lens	22:1	22:1
Telemetry	RS485, Coax	RS485, Coax
Presets	240	240
Tours	8	8
Alarm Inputs	4	4
Resolution	960H	960H
Operation	True Day/Night	True Day/Night
WDR	✓	✓
IP rating	IP66	IP66
IK rating	IK10	IK10
Bubble	Clear	Clear
Operating Temp	-10 to +50°C	-10 to +50°C (camera only) -30 to +50°C (if heater and fan connected)
Power	12/24V	12/24V (12W for camera) 24VAC (45W for heater & fan)

FOR BRACKETRY, SEE PAGE 63

SPECIFICATION

- 960H (700TVL) resolution
- 22:1 (3.9-85.8mm) lens
- True Day/Night operation
- 4 alarm inputs
- Auto sensing RS485 & Coaxial telemetry
- 120 presets with individual function set up
- Surface or Pendant mount options
- -30°C operation on PM version

Fully Functional PTZ Domes – VP-960H

Camera Type	VP-22DN-960H/BC	VP-22DN-960H/BS	VP-36DN-960H/BS	VP-36DN-960H/BC
Product Code	0690390	0690400	0690410	0690420
Lens	22:1	22:1	36:1	36:1
Telemetry	RS485, Coax	RS485, Coax	RS485, Coax	RS485, Coax
Presets	240	240	240	240
Tours	8	8	8	8
Alarm Inputs	8	8	8	8
Resolution	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Operation	TDN	TDN	TDN	TDN
WDR	✓	✓	✓	✓
IP rating	IP66 (with VDM-EXTHSG)	IP66 (with VDM-EXTHSG)	IP66 (with VDM-EXTHSG)	IP66 (with VDM-EXTHSG)
IK rating	IK10 (with VDM-EXTHSG/C)	IK10 (with VDM-EXTHSG/C)	IK10 (with VDM-EXTHSG/C)	IK10 (with VDM-EXTHSG/C)
Bubble	Clear	Smoked	Clear	Smoked
Power	24VAC (20W)	24VAC (20W)	24VAC (20W)	24VAC (20W)

FOR BRACKETRY, SEE PAGE 64

VP-960 ACCESSORIES

Product Name	Product Code	Description
Internal mounting		
VDM-ICM/B	0498730	In ceiling mount kit with black trim ring
VDM-ICM/C	0697360	In ceiling mount kit with cream trim ring
VDM-ICMD/C	0697370	In ceiling mount kit with cream trim ring & smoked dome
External & Vandal resistant mounting		
VDM-EXTHSG/C	0498720	IP66 pendant mount housing & clear IK10 bubble (53W @ 24VAC)
VDM-EXTHSG/S	0680960	IP66 pendant mount housing & smoked bubble (53W @ 24VAC)
VDMEXTHSGCBUB	0750250	Replacement clear IK10 bubble for the VDM-EXTHSG
VDMEXTHSGSBUB	0750260	Replacement smoked bubble for the VDM-EXTHSG
VP-960H-Standoff	0711330	Analogue camera module spacers & screws
VK2-1080XPTZ-Standoff	0711340	IP camera module spacers & screws

SPECIFICATION

- 960H (700TVL) resolution
- 22:1 (3.9-85.8mm) or 36:1 (3.4-122.4mm) lens options
- True Day/Night operation
- 8 alarm inputs / 4 alarm outputs
- Auto sensing RS485 & Coaxial telemetry
- 240 presets
- Back box memory
- IP66 and -30ºC operation when used with VDM-EXTHSG

VP-960H camera module

VP-960H in a VDM-EXTHSG/C

VP-960H in a VDM-ICM/B

Quantum DVRs

OVERVIEW

The Quantum 960H range of DVRs offer real time recording at HD quality, providing an increase of up to 25% in image quality (when used with matching 960H (700TVL) cameras) on recorded images compared to D1 DVRs. This is achieved with no extra overhead on storage. These class leading DVRs allow users to upgrade to HD imagery on an analogue platform plus are fully backwards compatible with all existing analogue cameras. These powerful DVRs provide telemetry control of PTZ cameras and domes via RS485 or coaxial telemetry direct from front panel controls, mouse, remote keyboard or client software.

FEATURE SET

Feature	QP960H			QX960H	
No of inputs	4	8	16	8	16
Record rate	400ips			400ips	
Playback rate	100ips			400ips	
Alarm inputs	4	8	16	8 or 16	
Alarm outputs	4			4	
Audio inputs	4			8	16
Main HDMI	✓			✓	
Main VGA	✓			✓	
Spot	CVBS			CVBS	
PTZ control	RS485 and Coax			RS485 and Coax	
Remote Keyboard	VKBD4			VKBD4	
Relay follower	✓			✓	
Archive methods	DVD, USB, Network			DVD, USB, Network	
Viewing software	Single Client and multiple connection QCMS			Single Client and multiple connection QCMS	
Mobile Apps	iOS and Android			iOS and Android	

QP960H PART CODES

DVR Type	Product Code
QP960H04-1TB	0656440
QP960H04-2TB	0656450
QP960H08-1TB	0656790
QP960H08-2TB	0656460
QP960H08-3TB	0700270
QP960H08-4TB	0656470
QP960H08-6TB	0656480
QP960H16-1TB	0656490
QP960H16-2TB	0658290
QP960H16-3TB	0656500
QP960H16-4TB	0658300
QP960H16-6TB	0656510
QP960H16-9TB	0656520
QP960H16-12TB	0656530

QX960H PART CODES

DVR Type	Product Code
QX960H08-1TB	0658310
QX960H08-2TB	0658320
QX960H08-4TB	0658330
QX960H08-6TB	0656550
QX960H16-1TB	0658340
QX960H16-2TB	0658350
QX960H16-4TB	0658360
QX960H16-6TB	0656570
QX960H16-8TB	0656580
QX960H16-12TB	0656590

RACK MOUNT KIT

Product Name	Product Code	Description
Rack mount kit	0704360	Quantum Rack mount kit (Not PoE QNVR)

Quantum Software - QCMS

REMOTE ACCESS AND CENTRAL MANAGEMENT

To allow the remote control of the Quantum range connected to PTZ cameras/ domes, a viewing software application is provided, permitting full operation and programming, with multi-user log on and simple address book site reference. This Quantum Central Management Software (QCMS) is provided free of charge with the Quantum DVR enabling connection of multiple DVRs & viewing of up to 64 images.

QCMS client viewing software SUPPLIED FOC WITH THE QUANTUM DVR

Monitors - VFS

HD 960H

The VFS100 and 200 monitor ranges produce high resolution, high contrast images while the highly efficient backlit LED panel produces a cost saving of approximately 40%, at 240VAC, over current fluorescent backlit LCD monitors. A fast response time down to 5ms reduces blur on movement and 1000:1 contrast further facilitates sharp images. Input types include HDMI, looping BNC connectors, S-Video and PC and audio connections.

The hard glass front gives the screen extra protection when used in industrial environments. An intuitive multilingual menu system makes the monitors very simple to set-up and can be configured in several languages. Front panel key locks stop unwanted adjustment of monitor settings, while the combination of a VESA mount and desk stand allows the monitors to be mounted anywhere.

Monitor Type	VFS117LEDe	VFS119LEDe	VFS121WLEDe	VFS124WLEDe	VFS-217LED	VFS-219LED	VFS221W
Product Code	**0710890**	**0710900**	**0710910**	**0710920**	**0657490**	**0657500**	**0472950**
LCD panel	17" (LED backlight)	19" (LED backlight)	21" (LED backlight)	24" (LED backlight)	17" (LED backlight)	19" (LED backlight)	21" (LED backlight)
Screen size - diagonal	431mm	483mm	547mm	610mm	431mm	483mm	547mm
Viewable size	338x270mm	376x301mm	477x268mm	531x299mm	338x270mm	376x301mm	477x268mm
Dot pitch	0.264x0.264mm	0.294x0.294mm	0.248x0.248mm	0.276x0.276mm	0.264x0.264mm	0.294x0.294mm	0.248x0.248mm
Viewing angle (L/R/T/B)	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80
Contrast ratio	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
Brightness	250 cd/m² (Typical)	250 cd/m² (Typical)	250 cd/m² (Typical)	250 cd/m² (Typical)	250 cd/m² (Typical)	250 cd/m² (Typical)	250 cd/m² (Typical)
Resolution	1280x1024 (4:3)	1280x1024 (4:3)	1920 x 1080 Full HD (16:9)	1920 x 1080 Full HD (16:9)	1280x1024 (4:3)	1280x1024 (4:3)	1920 x 1080 Full HD (16:9)
Display color	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
Response time	5ms	5ms	5ms	5ms	5ms	5ms	5ms
Multi media input	HDMI	HDMI	HDMI	HDMI	HDMI	HDMI	HDMI
PC Input	15 pin D-SUB VGA - Vesa timing	15 pin D-SUB VGA - Vesa timing	15 pin D-SUB VGA - Vesa timing	15 pin D-SUB VGA - Vesa timing	15 pin D-SUB VGA - Vesa timing	15 pin D-SUB VGA - Vesa timing	15 pin D-SUB VGA - Vesa timing
Video input	1 x Looping composite BNC connector (1Vp-p /75 Ohm) 1x S-Video input (4 pin Mini-din 1Vp-p / 75 Ohm)	1 x Looping composite BNC connector (1Vp-p /75 Ohm) 1x S-Video input (4 pin Mini-din 1Vp-p / 75 Ohm)	1 x Looping composite BNC connector (1Vp-p /75 Ohm) 1x S-Video input (4 pin Mini-din 1Vp-p / 75 Ohm)	1 x Looping composite BNC connector (1Vp-p /75 Ohm) 1x S-Video input (4 pin Mini-din 1Vp-p / 75 Ohm)	2 x Looping composite BNC connector (1Vp-p /75 Ohm) 1x S-Video input (4 pin Mini-din 1Vp-p / 75 Ohm)	2 x Looping composite BNC connector (1Vp-p /75 Ohm) 1x S-Video input (4 pin Mini-din 1Vp-p / 75 Ohm)	2 x Looping composite BNC connector (1Vp-p /75 Ohm) 1x S-Video input (4 pin Mini-din 1Vp-p / 75 Ohm)
Power	100-240VAC (18W)	100-240VAC (18.5W)	100-240VAC (24W)	100-240VAC (28W)	100-240VAC (18W)	100-240VAC (18.5W)	100-240VAC (24W)
Operating temperature	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C	0 to +40°C
Storage temperatures	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C	-20 to +60°C
Housing	Slim Plastic Bezel	Slim Plastic Bezel	Slim Plastic Bezel	Slim Plastic Bezel	Slim Plastic Bezel	Slim Plastic Bezel	Slim Plastic Bezel
Dimension WxHxD	437x137x465mm	461x572x117mm	565x420x114mm	564x442x195mm	370x370x190mm	420x415x190mm	513x404x197mm
Weight net/gross	2.94/3.71Kg	3.6/4.42Kg	3.43/4.48Kg	3.9/5.6Kg	3.6kg/5.5kg	4.1kg/6.6kg	3.8kg/6.6kg
Wall mount	100x100 VESA	100x100 VESA	100x100 VESA	100x100 VESA	100x100 VESA	100x100 VESA	100x100 VESA
Glass fronted panel	Gloss	Gloss	Gloss	Gloss	Matt	Matt	Matt

FOR BRACKETRY, SEE PAGE 65

Keyboards - VKBD

OVERVIEW

Designed to meet the stringent demands of the CCTV control environment, the VKBD4 Control Keyboard offers installers and operators a feature rich, high-performance and durable system controller. The VKBD4 Control Keyboard will control all Vista DVRs, matrices and speed domes, whilst built-in multi-protocols permit integration and control of numerous 3rd party devices.

SPECIFICATION

- **System Status LCD**
  2.8" LCD gives clear indication of system status, mode of operation, and multi-function soft keys
- **Tri-State Backlit Control Keys**
  Tri-state, colour-coded keys automatically change functionality depending on keyboard mode. Indicated via change of colour
- **2 x RS422/RS485 Outputs**
  Each output permits a different control protocol to be selected simultaneously
- **3-Axis Joystick**
  Precise control of PTZ functions and scroll through menu options
- **Quick Shortcut Keys**
  Easy to programme and control dome presets and tours
- **Engineer Set-Up Mode**
  Simple set-up via display on LCD
- **Ergonomic Design**
  User-friendly and comfortable operation the housing opens fully at the side and hangs down to give free access to the camera and all connections for quick and easy installation and servicing

KEYBOARDS

Product Name	Product Code	Description
VKBD4	0363570	Dome, DVR & VM8 matrix control keyboard, RS485, LED display, black, 6W, 9-12VDC, 368x205x113mm, PSU included
VKBD1	0446190	Dome control keyboard, RS485, LCD display (2 x 16 character lines), black, 3W, 12VDC, 280x174x92mm, PSU included

ACCESSORIES

Product Name	Product Code	Description
VKBDRKIT	0443320	Remote kit for VKBD4 keyboard, allow installation greater than 2m from controller
VSD/16	0349850	16 Channel dome protocol star driver, RS422/RS485, controller, black, 10W, 12VDC, requires PSU, 44x492x14.3mm

Quad & Switchers - VQCM & VS

QUAD

The VQCM4 provides auto sensing of colour and monochrome video inputs, allowing for both plug-and-play operation and set-up, along with loop-through and manual camera termination.

Product Name	Product Code	Description
VQCM4	0310570	Quad, real-time, motion detection, alarm inputs, black, 12W, 12VDC PSU included, 320x150x60mm

SWITCHERS

Product Name	Product Code	Description
VS042	0315850	Switcher, 4 way 2 monitor, cream, 4.5W, 15VAC PSU included, 210x48x195mm
VS042A	0315860	Switcher, 4 way 2 monitor with alarms, cream, 4.5W, 15VAC PSU included, 210x48x195mm
VS082	0315870	Switcher, 8 way 2 monitor, cream, 4.5W, 15VAC PSU included, 210x48x195mm
VS082A	0315880	Switcher, 8 way 2 monitor with alarms, cream, 4.5W, 15VAC PSU included, 210x48x195mm

SPECIFICATION

- **Accepts both colour and monochrome cameras & either PAL or NTSC signals**
  Interfacing to both colour, monochrome and day/night cameras provides `true' colour and monochrome imagery for recording
- **Exceptionally fast response time**
  This high refresh rate means that the operator sees "Real-Time" images
- **Separate VCR/DVR and monitor outputs**
  The separate outputs for both the monitor and VCR/DVR is highly effective allowing the operator to view single, sequential, PIP or quad images while recording the required quad images, unlike most of the quads on the market, that record what you view
- **Motion detection**
  Unlike most quads the VQCM4 has a per camera built-in motion detection that can trigger control equipment or a VCR/DVR to record as if in alarm mode

Smart Video Transmission

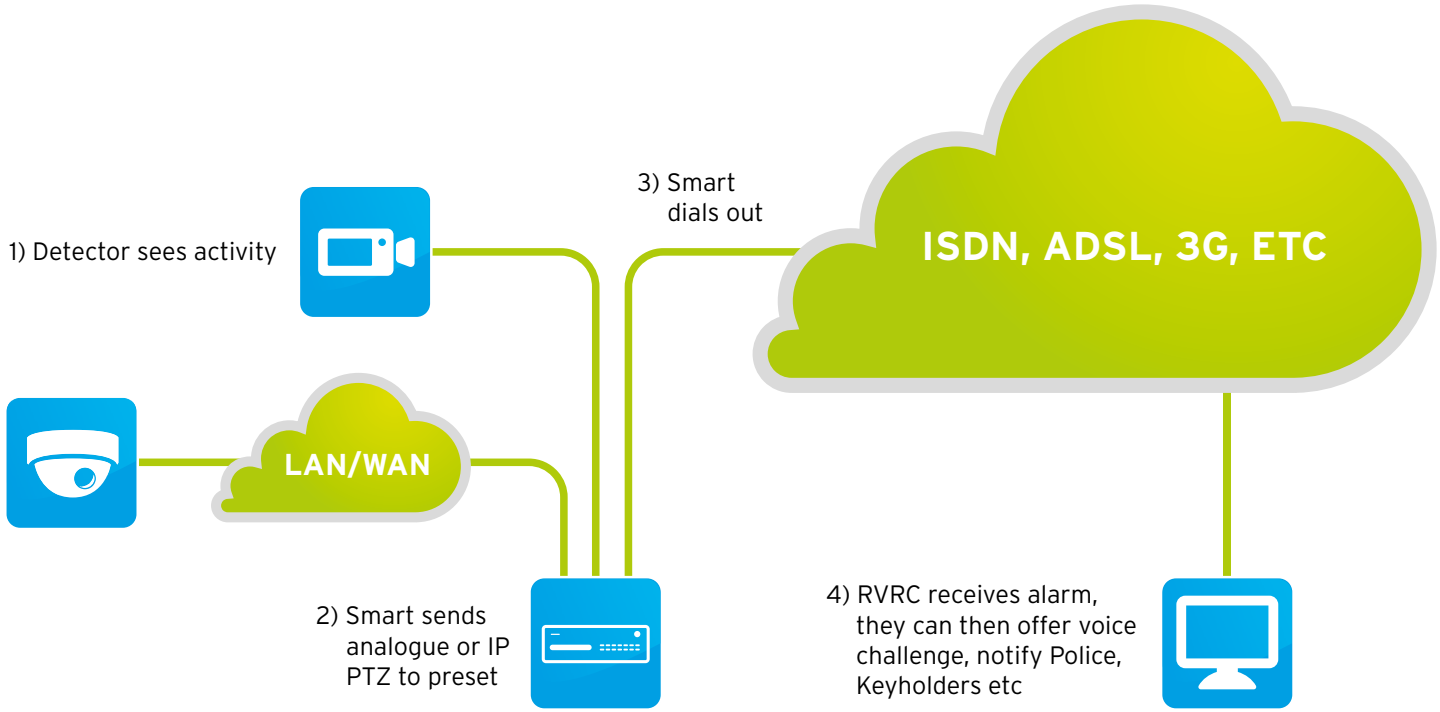
Available on the App Store

The Smart range of products enables remote viewing from any PC, laptop and numerous mobile devices from anywhere in the world. All Smart devices provide EoL monitored alarm inputs and a 16,000 event log for BS8418:2010 compliance and can transmit live video, pre-recorded video or respond on the activation of an alarm event and is supported nationally by many ARC and VRC Central stations.

Mobile specific technology now provides a solution whereby vehicles can be fitted with recording devices and allows a tracking feature either in live mode or for review at a later date from the removable hard drive.

SPECIFICATION

- BS8418 compliant: For detector activated CCTV systems that require police response
- HTconnect: This advises the RVRC if signalling path fails
- HTcompress: Efficient compression technology, makes for smaller file sizes for remote viewing & transmission over a network
- PTZ/Dome control: Control cameras remotely via PC software or iOS App
- IP camera support on all Smart devices: Over 800 cameras from multiple manufacturers


1) Detector sees activity
3) Smart dials out
ISDN, ADSL, 3G, ETC
LAN/WAN
2) Smart sends analogue or IP PTZ to preset
4) RVRC receives alarm, they can then offer voice challenge, notify Police, Keyholders etc

Transmission - SmartTel & SmartCF

SMARTTEL

A transmission only device that can be added to an existing site where a DVR is installed or recording is simply not required. Can be connected to virtually any network/dial up connection. Alarm inputs can provide automatic dial up.

SPECIFICATION

- 4 or 10 channel transmission only devices
- Bi-directional audio
- BS8418:2010 compliant
- HTcompress for efficient image compression to maximise storage space
- PTZ control
- Fully compatible with all SmartControl and EMS software packages
- S_Remote app for live, playback and control

Product Name	Product Code	Inputs	Analogue Resolution	IP Resolution	Type	Application	Storage	IP Compression	Alarm Inputs	Audio	Serial Input
VLS2-04TR	0480180	4	720x288	Up to 5MP	Transmission only	Static	64MB (for pre-alarm)	JPEG, MJPEG	4	✓	✓
VLS2-10TR	0480190	10	720x288	Up to 5MP	Transmission only	Static	64MB (for pre-alarm)	JPEG, MJPEG	10	✓	✓

SMARTCF

A smaller device, perfect for rapid deployment. Records to a Compact Flashcard for remote on-site recording and playback. Features an integrated 3G/GPS router for transmission.

SPECIFICATION

- 4 channel (1 analogue & 3 IP or 4 IP cameras) real-time recorder
- Records to Compact Flashcard (not included)
- Integrated 3G/GPS router for remote connectivity and location tracking
- Bi-directional audio and non-audio models
- BS8418:2010 compliant
- HTcompress for efficient image compression to maximise storage space
- PTZ control
- Fully compatible with all SmartControl and EMS software packages
- S_Remote app for live, playback and control

Product Name	Product Code	Camera Inputs	Analogue Resolution	IP Resolution	Type	Application	IPS	IP Encoding	Storage	Removable HDD	3G/GPS Module	Alarm Inputs	Audio	Serial input
VLS2-02RTCF3GNA	0480210	1 analogue/3 IP	720x288	Up to 5MP	Record & Transmission	Static, Mobile	25ips per channel	JPEG, MJPEG	Up to 64GB (to CF card)	✓	✓	2	-	✓
VLS2-02RTCF3G	0480340	1 analogue/3 IP	720x288	Up to 5MP	Record & Transmission	Static, Mobile	25ips per channel	JPEG, MJPEG	Up to 64GB (to CF card)	✓	✓	2	✓	✓

Transmission - SmartDisc

SMARTDISC

All of the features of the SmartTel but with an internal hard drive for remote on-site recording and remote playback. Different form factors to suit alternative applications, including real-time recording and devices with an integrated 3G/GPS router.

VLS2-02RT1T3GNA

SPECIFICATION

- 4 channel (1 analogue & 3 IP or 4 IP cameras) real-time recorder
- Embedded 1TB HDD for long term storage
- Integrated 3G/GPS router for remote connectivity and location tracking
- BS8418:2010 compliant
- HTcompress for efficient image compression to maximise storage space
- PTZ control
- Directly power the analogue camera
- Fully compatible with all SmartControl and EMS software packages
- S_Remote app for live, playback and control

VLS2-04RT

SPECIFICATION

- 4 or 10 channel real-time recorders
- 1, 2, & 4 TB HDD available
- Bi-directional audio
- BS8418:2010 compliant
- HTcompress for efficient image compression to maximise storage space
- PTZ control
- Fully compatible with all SmartControl and EMS software packages
- S_Remote app for live, playback and control

Product Name	Product Code	Camera Inputs	Analogue Resolution	IP Resolution	Type	Application	IPS	IP Encoding	Storage	Removable HDD	3G/GPS Module	Alarm Inputs	Audio	Serial input
VLS2-02RT1TNA	0480330	2	720x288	Up to 5MP	Record & Transmission	Static	25ips per channel	JPEG, MJPEG	1TB (embedded)	-	-	2	✓	✓
VLS2-02RT1T	0480200	2	720x288	Up to 5MP	Record & Transmission	Static	25ips per channel	JPEG, MJPEG	1TB (embedded)	-	-	2	✓	✓
VLS2-02RT1T3GNA	0480350	1 analogue/3 IP	720x288	Up to 5MP	Record & Transmission	Static	25ips per channel	JPEG, MJPEG	1TB (embedded)	-	✓	2	-	✓
VLS2-04DRNA	0480220	4	720x288	Up to 5MP	Record & Transmission	Static	25ips global	JPEG, MJPEG	Up to 4TB	✓	-	4	-	✓
VLS2-04DR	0480230	4	720x288	Up to 5MP	Record & Transmission	Static	25ips global	JPEG, MJPEG	Up to 4TB	✓	-	4	✓	✓
VLS2-04RT	0480240	4	720x288	Up to 5MP	Record & Transmission	Static	25ips per channel	JPEG, MJPEG	Up to 4TB	✓	-	4	✓	✓
VLS2-10DRNA	0480250	10	720x288	Up to 5MP	Record & Transmission	Static	25ips global	JPEG, MJPEG	Up to 4TB	✓	-	10	-	✓
VLS2-10DR	0480260	10	720x288	Up to 5MP	Record & Transmission	Static	25ips global	JPEG, MJPEG	Up to 4TB	✓	-	10	✓	✓
VLS2-10RT	0480280	10	720x288	Up to 5MP	Record & Transmission	Static	25ips per channel	JPEG, MJPEG	Up to 4TB	✓	-	10	✓	✓

Transmission - SmartMobile

SMARTMOBILE

The SmartMobile is a truly mobile remote digital recording and transmission system which allows full surveillance of vehicles across the globe.

Utilising leading edge vibration protection technology, the SmartMobile offers the user a proven transmission platform. Designed specifically for the mobile market, it is approved to railway applications EN50155 – electronic equipment used on rolling stock, and EN61373 – shock and vibration. Available in 2 form factors to suit alternative applications, including real-time recording and devices with integrated 3G/GPS router.

VLS2-02RTM1T3G

SPECIFICATION

- 4 channel (1 analogue & 3 IP or 4 IP cameras) real-time recorder
- Embedded 1TB HDD for long term storage
- Integrated 3G/GPS router for remote connectivity and location tracking
- Rolling stock (EN50155), vibration & shock (EN61373) compliant
- HTcompress for efficient image compression to maximise storage space
- PTZ control
- Fully compatible with all SmartControl and EMS software packages
- S_Remote app for live, playback and control

VLS2 4 & 10 channel

SPECIFICATION

- 4 channel (non realtime) recorder
- 10 channel (real-time) recorder
- Record to 1TB HDD
- Rolling stock (EN50155), vibration & shock (EN61373) compliant
- HTcompress for efficient image compression to maximise storage space
- PTZ control
- Directly power the analogue camera
- Fully compatible with all SmartControl and EMS software packages
- S_Remote app for live, playback and control

Product Name	Product Code	Camera Inputs	Analogue Resolution	IP Resolution	Type	Application	IPS	IP Encoding	Storage	Removable HDD	3G/GPS Module	Alarm Inputs	Audio	Serial input
VLS2-02RTM1T3GNA	0480670	1 analogue/3 IP	720x288	Up to 5MP	Record & Transmission	Static, Mobile	25ips per channel	JPEG, MJPEG	1TB (embedded)	-	✓	2	-	✓
VLS2-02RTM1T3G	0480680	1 analogue/3 IP	720x288	Up to 5MP	Record & Transmission	Static, Mobile	25ips per channel	JPEG, MJPEG	1TB (embedded)	-	✓	2	✓	✓
VLS2-04DRMOB	0480290	4	720x288	Up to 5MP	Record & Transmission	Static, Mobile	25ips global	JPEG, MJPEG	1TB	✓	-	4	✓	✓
VLS2-10RTMOB	0480360	10	720x288	Up to 5MP	Record & Transmission	Static, Mobile	25ips per channel	JPEG, MJPEG	1TB	✓	-	4	✓	✓

Transmission - SmartIP

SMARTIP

A highly efficient real-time recording and alarm transmission solution, SmartIP is ideal for all IP camera remote monitoring applications. With functionality based on the popular SmartDisc, the SmartIP with H.264 encoding, caters for the connection of standard or megapixel IP cameras. With a wide range of IP camera manufacturers, SmartIP provides an excellent starting platform for users to move into IP for remote transmission. For sites where analogue cameras are also required there is a plug in card available to enable the BNC ports at the rear of the unit making this a true hybrid recording and transmission solution.

SPECIFICATION

- 10 channel real-time IP recorder
- 1, 2, & 4 TB HDD available
- Plug in card for hybrid functionality
- HTcompress for efficient image compression to maximise storage space
- PTZ control
- Fully compatible with all SmartControl and EMS software packages
- S_Remote app for live, playback and control

Product Name	Product Code	Camera Inputs	Analogue Resolution	IP Resolution	Type	Application	IPS	IP Encoding	Storage	Removable HDD	Alarm Inputs	Audio	Serial input
VLS2-10IPRT	0480270	10	720x288	Up to 5MP	Record & Transmission	Static	25ips per channel	H.264, JPEG, MJPEG	Up to 4TB	✓	10	✓	✓

Transmission - Smart Software

Available on the App Store

SOFTWARE

SmartIP Software Type	LITE	PRO	EMS
System architecture	Single PC	Single PC	Server / Client
Simultaneous connections	1	21	50
Max number of transmitters	6000	6000	Unlimited
Transmitter multi view modes	1, 4, 10ch	1, 4, 10ch	1, 4, 10ch
Remote configuration of transmitters	✓	✓	✓
PTZ control	✓	✓	✓
Relay control	✓	✓	✓
Logfile operator comments	-	✓	✓
Transmitter specific information text	-	✓	✓
Scheduled arm/disarm	-	-	✓
Site maps	-	-	✓
HT Heath check	-	-	✓
Automated firmware update tool	-	-	✓

Product Name	Product Code	Product Description
VLS-LITE	-	SmartControl Lite software, 1 connection for device set up (FoC with every device)
VLS-CPRO	0252090	SmartControl Pro software, up to 21 simultaneous connections
VLS-CSER	0496130	EMS server software, up to 50 simultaneous connections
VLS-CCLNT	0262330	EMS client software, up to 50 per EMS server
VLS-VW	0495930	Smart videowall software, up to 64 connections
VLS-SVSS	0399360	Smart SDK software
S_Remote	-	View live, recorded images, relay operation & PTZ control (FoC from App store)

Transmission - Accessories and Spares

Product Name	Product Code	Product Description
VLS2-DR1TB	0480300	1TB HDD for SmartDisc & SmartIP (VLS2 only)
VLS2-DR2TB	0480310	2TB HDD for SmartDisc & SmartIP (VLS2 only)
VLS2-DR4TB	0480370	4TB HDD for SmartDisc & SmartIP (VLS2 only)
VLS2-DRMOB1TB	0480320	1TB HDD for SmartMobile (VLS2 only)
VLS2-DRUSB	0480380	USB kit for VLS2 Smart only
VLS-AUDIOBRD	0395610	Plug in audio board (VLS/VLS2)
VLS-TAe	0480400	Plug in ISDN card for Smart (VLS/VLS2)
VLS-HC/IP	0471030	4 channel analogue card for SmartIP (VLS/VLS2)
VLS-ALM50R	0478830	50 alarm/8 relay expansion module for Smart (VLS/VLS2)
VLS-AIM	0310560	Audio interface module for Videx door entry systems (VLS/VLS2)
VLS-PSU	0255300	Spare 4A (48W) PSU for Smart (VLS/VLS2)
VLS-PSU/IP	0480390	Spare 7A (84W) PSU for SmartIP (VLS/VLS2)
VLS-RMK/single	0471870	Single Smart rack mount kit (VLS/VLS2)
VLS-RMK/double	0471880	Double Smart rack mount kit (VLS/VLS2)
VLS-MOBMT	0296130	Mounting plate for SmartMobile (VLS/VLS2)

ITEMS FOR LEGACY SMART DEVICES (VLS ONLY)

Product Name	Product Code	Product Description
VLS-DR1000	0442730	1000GB HDD for SmartDisc (VLS only)
VLS-DR2000	0470700	2000GB HDD for SmartDisc (VLS only)
VLS-DR/IP1000	0495990	1000GB HDD for SmartIP (VLS only)
VLS-DR/IP2000	0470710	2000GB HDD for SmartIP (VLS only)
VLS-DR1000MOB	0658770	1000GB for SmartMobile (VLS only)
VLS-DRUSBe	0345250	USB kit for SmartDisc/Mobile (VLS only)

VNPR - Cameras & Accessories

VNPRC

WITHOUT OVERVIEW CAMERA

VNPRCD

WITH OVERVIEW CAMERA

VNPRBOLLARD

SPECIFICATION

- Cameras preset to view lane width at specific distance
- Camera shuttering and LED illumination syncronised to achieve high read rate
- Upto 35m read ranges
- Day/Night overview camera option (VNPRCD)

SPECIFICATION

- Stainless steel rugged housing
- Cameras preset to view lane width at specific distance
- Camera shuttering and LED illumination syncronised to achieve high read rate
- Upto 15m read ranges

Product Name	Product Code	Description
VNPRC6e	0446350	3-6m range number plate recognition camera
VNPRC12e	0446360	7-12m range number plate recognition camera
VNPRC18e	0446370	11-18m range number plate recognition camera
VNPRC25e	0446380	14-25m range number plate recognition camera
VNPRC35e	0446390	23-35m range number plate recognition camera
VNPRCD12e	0446400	7-12m range number plate recognition camera with overview
VNPRCD18e	0446410	11-18m range number plate recognition camera with overview
VNPRCD25e	0446420	14-25m range number plate recognition camera with overview
VNPRCD35e	0446430	23-35m range number plate recognition camera with overview
VNPRBOLLARD5	0470220	3-5m bollard camera
VNPRBOLLARD7	0470230	5-7m bollard camera
VNPRBOLLARD10	0470240	7-10m bollard camera
VNPRBOLLARD15	0472060	10-15m bollard camera

ACCESSORIES

Product Name	Product Code	Description
VNPRCPSUe	0446440	PSU for VNPRCe & VNPRCDe cameras
VNPRCPAe	0456880	Pole side mount bracket
VNPRCTMe	0457050	Tower mount bracket
VNPRCCMe	0457060	Ceiling mount bracket

VNPR - Controllers & Software

VNPR Lite

The VNPR Lite has been specifically designed to take the complexity out of Automatic Number Plate Recognition (ANPR) by providing popular features needed for the majority of applications. Using a proven system, the VNPR Lite solution is so simple to install and use that we are confident you will not find an easier solution aimed at systems of up to 20 lanes. VNPR Lite provides a complete, ready to use back end solution for ANPR including PC, capture cards, relay card, keyboard, mouse and all appropriate database software with full audit trail and password protection.

SPECIFICATION

- Up to 20 lane system – using Lite server and five
- lane controllers
- Best number plate engine in the market
- Live monitoring of traffic flow with database links
- Historical review of information
- Car park barrier control
- Log of all traffic movements with images
- Output to LED signs

Product Name	Product Code	Description
VNPR111Le	0310350	1 lane Lite controller, including barrier control relays
VNPR211Le	0310360	2 lane Lite controller, including barrier control relays
VNPR311Le	0472600	3 lane Lite controller, including barrier control relays
VNPR411Le	0472610	4 lane Lite controller, including barrier control relays

VNPR Protos

The VNPR Protos range from Vista allows for fully integrated multi-lane systems and can control up to eight lanes of traffic via a single controller PC. For larger systems, the multiple units can be linked to a server which will hold a central database of all the information received. This allows for a very cost effective method of capturing number plates for a wide variety of larger applications including car park barrier control, estate management and traffic flow monitoring.

SPECIFICATION

- Rugged industrial chassis PC
- Best number plate engine on the market
- Up to 8 lanes on single controller
- Live monitoring of traffic flow with database links
- Historical review of information
- Car park barrier control
- Log of all traffic movements with images
- Output to LED signs

Product Name	Product Code	Description
VNPR1Pe	0455030	1 lane Protos controller, including barrier control relays
VNPR2Pe	0455040	2 lane Protos controller, including barrier control relays
VNPR3Pe	0455050	3 lane Protos controller, including barrier control relays
VNPR4Pe	0455060	4 lane Protos controller, including barrier control relays
VNPR5Pe	0455070	5 lane Protos controller, including barrier control relays
VNPR6Pe	0455080	6 lane Protos controller, including barrier control relays
VNPR7Pe	0455090	7 lane Protos controller, including barrier control relays
VNPR8Pe	0455100	8 lane Protos controller, including barrier control relays

VNPR - Controllers & Software (continued)

Displays live pictures from cameras

Displays database information from known plates

Displays list of recent read plates

Allows editing & adding of database entries

Displays list of plates from search result

Allows various search criteria to be entered to narrow search for a particular plate

Displays captured images from number plate cameras & overview cameras

Displays stored database information relative to selected number plate

Analsyis of recorded data can be carried out such as frequency of entries, car park overstay and speed between points

ACCESSORIES

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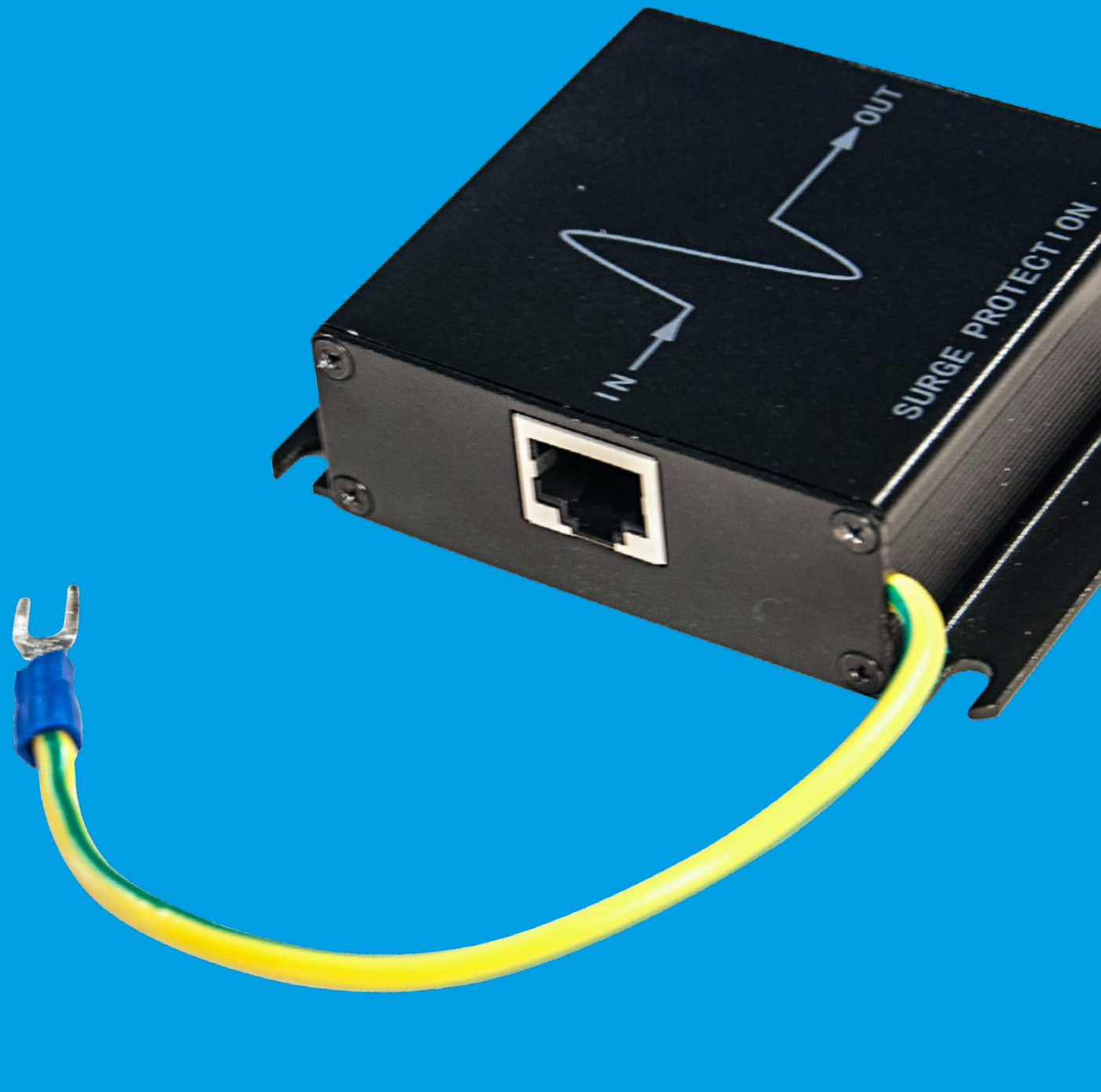


Perimeter Protection - VID

OVERVIEW

Vista PIR detectors have been designed for accurate and reliable outdoor perimeter protection, irrespective of weather conditions. A number of technologies have been employed to ensure the VID achieves the best accuracy available on the market. For example, Adaptive Threshold Discrimination technology reduces the number of nuisance alarms caused by vegetation, small animals and sudden environmental changes. This works by continually averaging background noise and adjusting the alarm threshold, allowing sensitivity to be automatically adjusted to suit site conditions.

SPECIFICATION

- **Adaptive Threshold Discrimination**
  Reduces the number of nuisance alarms by constantly averaging and adjusting the threshold
- **Double curtain coverage**
  Deferential sensors eliminate unwanted alarms by rejecting any signal received simultaneously by the two curtains
- **Stand-alone passive IR detector**
  Provides cheaper and simpler installation and alignment
- **Internal temperature compensation**
  Prevents condensation and ensures reliable operation under extreme weather conditions

BRACKETRY

Product Name	Product Code	Description
VID-PA	0404450	Pole mount adaptor for a single VID

Product Name	Product Code	Detection Pattern	Width at Nominal Range	Nominal Range	Detection Speed	Mounting Height	Environmental	Operating Temperature	Power
VID-W10L040	0404370	Volumetric	10m	40m	0.2 - 5m/s	2.5 - 4m	IP64	-20 to +60°C	12VDC (0.2W) / 24VAC (0.3W)
VID-W20L030	0404420	Volumetric	20m	30m	0.2 - 5m/s	2.5 - 4m	IP64	-20 to +60°C	12VDC (0.2W) / 24VAC (0.3W)
VID-W22L050	0479460	Volumetric	22m	50m	0.2 - 5m/s	2.5 - 4m	IP64	-20 to +60°C	12VDC (0.2W) / 24VAC (0.3W)
VID-W03L040	0404390	Curtain	3m	40m	0.2 - 5m/s	2.5 - 4m	IP64	-20 to +60°C	12VDC (0.2W) / 24VAC (0.3W)
VID-W03L100	0404400	Curtain	3m	100m	0.2 - 5m/s	2.5 - 4m	IP64	-20 to +60°C	12VDC (0.2W) / 24VAC (0.3W)

IR Lighting - VIR

OVERVIEW

Vista provides a range of IR illuminators to suit the majority of lighting applications. Using interchangeable LSD (Light Shaping Diffuser) filters or manually adjustable beam angle technology, the installer can individually tailor the illumination to suit each site requirement. The illuminators all operate on either 12VDC or 24VAC, and are controlled by photocells, whilst the VIRSY2 series having a following relay, this allows cameras to switch at the same time.

Product Name	Interchangeable Filters			Manual
	VIRSY2-L	VIRSY2-M	VIRSY2-S	VIR-ZM1
Product Code	**0479700**	**0479690**	**0479680**	**0479640**
Wavelength	850nm	850nm	850nm	850nm
Angle Options	10°, 30°, 75°	10°, 30°, 75°	10°, 30°, 75°	3.5° to 90°
IR Illumination	200m @ 10° 110m @ 30° 45m @ 75°	110m @ 10° 60m @ 30° 30m @ 75°	60m @ 10° 40m @ 30° 20m @ 75°	100m @ 3.5° 11m @ 90°
Photocell Operation (PC)	✓	✓	✓	✓
PC Following Relay	✓	✓	✓	-
Environmental	IP66	IP66	IP66	IP66
Operating Temperature	-50 to +50°C	-50 to +50°C	-50 to +50°C	-30 to +50°C
Power	12/24V (40W)	12/24V (20W)	12/24V (10W)	12/24V (5W)

BRACKETRY

Product Name	Product Code	Description
VIRB180	0495870	Dual pole mount bracket for VIR range
VIRB360	0495880	Quad pole mount bracket for VIR range
VIRBSPM	0495890	Side pole mount for VIR range
VIRBWM	0495840	Spare wall bracket for VIR range

Camera Housings - VHE & VCMH

OVERVIEW

The Vista housing range has been designed to provide total access to the camera mounting platform for ease of installation. Each housing has a fully cable-managed bracket to eliminate any loose and unsightly cabling. The housings are an ideal size to fit the majority of CCTV cameras with either a fixed or varifocal lens. The IP66 rated weatherproof housing not only looks smart and professional, but also reduces any vandal-related threats.

SPECIFICATION

- **Side opening or slide and hang housings**
  The housings open fully to give free access to the camera and all connections for quick and easy installation and servicing
- **IP66 rated**
  This high rating ensures that the housing is dust tight and protected against high pressure jets of water
- **Fully cable-managed bracket**
  This provides maximum protection for all cables entering the housing, increasing the integrity of the housing and providing a more professional installation
- **Marine finish on the VCMHA**
  This makes the housing suitable for coastal installations and harsh environments

Product Name	VHE-23LV	VHE-23HV	VCMH24A	VCMHA
Product Code	**0356970**	**0356960**	**0498410**	**0498400**
Construction	Aluminium	Aluminium	Aluminium	Aluminium
Opening mechanism	Side opening	Side opening	Slide and hang	Slide and hang
Cable entry	3	3	4	4
Max Camera/Lens (MCL)	90mm (W) 85mm (H) 260mm (L)	90mm (W) 85mm (H) 260mm (L)	105mm (W) 86mm (H) 270mm (L)	105mm (W) 86mm (H) 270mm (L)
Heater operation	On: 15°C Off: 25°C	On: 15°C Off: 25°C	On: 15°C Off: 22°C	On: 15°C Off: 22°C
Finish	Powder coated	Powder coated	Marine epoxy	Marine epoxy
Colour	RAL7035	RAL7035	RAL9002	RAL9002
Environmental	IP66	IP66	IP66	IP66
Operating Temp	-10 to +50°C	-10 to +50°C	-20 to +50°C	-20 to +50°C
Power	24VAC (14W)	90-240VAC (22W)	24VAC (20W)	100-240VAC (40W)

BRACKETRY

Product Name	Product Code	Description
VHE-23-EPMA	0442920	External pole mount adaptor for 1 or 2 VHE-23 housings, 50-130mm diameter
VHE-EPMA1	0032830	External pole mount adaptor for 1 x VCMH housing, 50-140mm diameter
VHE-EPMA2	0032700	External pole mount adaptor for 2 x VCMH housing, 50-140mm diameter

Lockable Video Box - QBOX

QBOX

Product Name	Product Code	Description
QBOX	0473150	Lockable box 150x550x550mm (HxWxD)

SPECIFICATION

- **Hinged top and front**
  Allows easy access for installation and maintenance
- **Robust steel construction**
  Provides a safe secure enclosure for the heart of the CCTV system
- **Top and side ventilation holes**
  Ensures the cool running of the DVR
- **Securing holes in base**
  Allows the box to be secured to the surface it is sitting on, increasing the security of the installation

Power Supplies – VPSU

OVERVIEW

Vista's 12VDC and 24VAC PSUs are available as 8, 4 and single output units. All plastic cased PSUs include individually fused outputs, with LED indicators for quick fault finding.

Suitable for integration into any CCTV system, externally rated plastic casing options are lightweight and easy to handle, come with 22mm cable gland entry points and for convenience and are supplied with spare fuses.

They are also tested to EN50130-4: (Alarm systems, Electromagnetic compatibility, Product family standard: Immunity requirements for components of fire, intruder and social alarm systems).

12VDC POWER SUPPLIES

Product Name	Product Code	Description
VPSU12-500	0703070	12VDC 500mA encapsulated PSU 2.1mm jack plug, mains flying lead
VPSU12-1000	0703080	12VDC 1000mA encapsulated PSU 2.1mm jack plug, mains flying lead
VPSU2000/12N	0098790	12VDC 2000mA encapsulated PSU 2.1mm jack plug, mains flying lead
VPSU12UNIV	0473270	12VDC 5000mA encapsulated PSU 2.1mm jack plug, mains flying lead
VPSU127000	0497690	12VDC 7000mA encapsulated PSU 2.1mm jack plug, mains flying lead
VPSU122EXT	0496100	12VDC IP66 plastic cased PSU, 1 x 2000mA output
VPSU1241	0471520	12VDC IP66 plastic cased PSU, 4 x 1000mA outputs
VPSU1244	0471510	12VDC IP66 plastic cased PSU, 1 x 4000mA output
VPSU1248	0471500	12VDC IP66 plastic cased PSU, 8 x 500mA outputs

24VAC POWER SUPPLIES

Product Name	Product Code	Description
VPSU24VAC/750	0258930	24VAC 750mA encapsulated PSU 2.1mm, mains and low voltage flying leads
VPSU24VAC/2000	0258940	24VAC 2000mA encapsulated PSU 2.1mm, mains and low voltage flying leads
VPSU24VAC/3000	0271770	24VAC 3000mA encapsulated PSU 2.1mm, mains and low voltage flying leads
VPSU2444	0472040	24VAC IP66 plastic cased PSU, 4 x 1000mA outputs
VPSU2488	0472050	24VAC IP66 plastic cased PSU, 8 x 1000mA outputs
VPSU243EXT	0496080	24VAC IP66 plastic cased PSU, 1 x 3000mA output
VPSU2441	0472030	24VAC IP66 plastic cased PSU, 1 x 4000mA output
VPSU245EXT	0496090	24VAC IP66 plastic cased PSU, 1 x 5000mA output

Cables & Connectors - RG59-CCS & RG59-SCC

RG59-CCS OVERVIEW

The RG59-CCS coax cable has a copper coated steel core and ≥85% screen coverage. This helps to reduce any external interference and ensures that the CCTV signal will travel 150m without excessive attenuation (signal losses <4dB, meaning no visible loss of picture quality and ensured operation on coaxial controlled systems).

SPECIFICATION

- The video signal will travel 150m without any visible loss of image quality
- Control fully functional cameras from up to 150m away via coax telemetry when used with a Quantum H.264 DVR
- UV resistant sheath allows cable to be used externally (Black only)
- LSF sheath minimises toxic fumes should it be burnt (Black only)

Product Name	Product Code	Conductor	Braiding	Sheath	Colour	Length
RG59/CCS/100	0480010	Copper coated steel	Copper coated aluminium	LSF	Black	100m
RG59/CCS/100W	0480130	Copper coated steel	Copper coated aluminium	PVC	White	100m
RG59/CCS/200	0480020	Copper coated steel	Copper coated aluminium	LSF	Black	200m
RG59/CCS/500	0480030	Copper coated steel	Copper coated aluminium	LSF	Black	500m

RG59-SCC OVERVIEW

The RG59-SCC coax cable is guaranteed to have a 100% pure solid copper core and ≥85% screen coverage. This not only helps to reduce any external interference, it also ensures that the CCTV signal will travel 250m without excessive attenuation (signal losses <6dB). It is suited for use on CCTV systems that utilise up the coax telemetry, e.g. Vista FSK, meaning no visible loss of picture quality and ensured operation on coaxial controlled systems.

SPECIFICATION

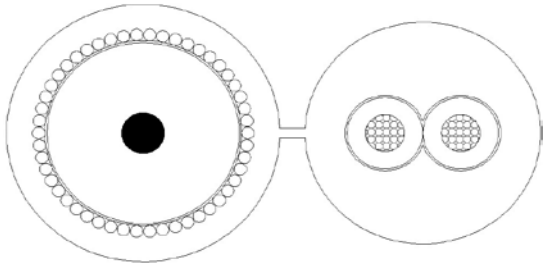
- The video signal will travel 250m without any visible loss of image quality
- Control fully functional cameras from upto 250m away via coax telemetry when used with a Quantum H.264 DVR
- UV resistant sheath allows cable to be used externally
- LSF sheath minimises toxic fumes should it be burnt

Product Name	Product Code	Conductor	Braiding	Sheath	Colour	Length
RG59/SCC/100	0480060	Solid copper core	Copper coated aluminium	LSF	Black	100m
RG59/SCC/200	0480070	Solid copper core	Copper coated aluminium	LSF	Black	200m
RG59/SCC/500	0480080	Solid copper core	Copper coated aluminium	LSF	Black	500m

Cables & Connectors - RG59-SG & BNCs

OVERVIEW

The RG59-SG coax cable is a 'shotgun' style cable with a copper coated steel core with ≥85% screen coverage in one side and 2 separate cores for power in the other. This allows a single cable run to send the video signal and power to the camera. The coax and power can be easily separated, allowing the RG59 to be taken 150m away without excessive attenuation (signal losses <4dB) for connection to the camera, control equipment or monitor, meaning no visible loss of picture quality and ensured operation on coaxial controlled systems. The power cores can be taken from the camera to the power supply and are colour coded red and black to help avoid any errors in connection.



Product Name	Product Code	Coax Conductor	Coax Braiding	Power Conductor	Sheath	Colour	Length
RG59/SG5/100	0480090	Copper coated steel	Copper coated aluminium	2 x 0.5mm² stranded copper core	LSF	Black	100m
RG59/SG5/200	0480100	Copper coated steel	Copper coated aluminium	2 x 0.5mm² stranded copper core	LSF	Black	200m
RG59/SG75/100	0480110	Copper coated steel	Copper coated aluminium	2 x 0.75mm² stranded copper core	LSF	Black	100m
RG59/SG75/200	0480120	Copper coated steel	Copper coated aluminium	2 x 0.75mm² stranded copper core	LSF	Black	200m

SPECIFICATION

- The dual cable design allows you to run both the video signal and power to the camera at the same time
- The video signal will travel 150m without any visible loss of image quality
- Control fully functional cameras from upto 150m away via coax telemetry when used with a Quantum H.264 DVR
- UV resistant sheath allows cable to be used externally
- LSF sheath minimises toxic fumes should it be burnt

BNC CONNECTORS

Product Name	Product Code	Description
VBNC	0442930	Single BNC connector
VBNC100	0442940	Pack of 100 BNC connectors

Cables & Connectors - CAT5e & CAT6

OVERVIEW

Essential to any IP networking infrastructure, the Vista CAT5e and CAT6, 4 pair UTP cable, comprises high quality, solid copper cores to ensure that industry standard network cable lengths can be achieved before additional repeaters or switches are required. Available in lengths of 305 and 500m, the cable is constructed with either a PVC or LSZH (Low Smoke, Zero Halogen) for internal use or Duct grade (PE) sheath for external applications.

Product Name	Product Code	Category	Type	Length	Sheath	Colour	Packaging
CAT5e/UTP/305/PVC/GREY	0480540	CAT5e	UTP	305m	PVC	Grey	Box
CAT5e/UTP/305/LSZH/VIOLET	0480560	CAT5e	UTP	305m	LSZH	Violet	Box
CAT5e/UTP/305/LSZH/WHITE	0480570	CAT5e	UTP	305m	LSZH	White	Box
CAT5e/UTP/305/DUCT/BLACK	0480580	CAT5e	UTP	305m	DUCT (PE)	Black	Box
CAT5e/UTP/500/DUCT/BLACK	0480590	CAT5e	UTP	500m	DUCT (PE)	Black	Drum
CAT6/UTP/305/LSZH/VIOLET	0480620	CAT6	UTP	305m	LSZH	Violet	Box

SPECIFICATION

- **CAT5e & CAT6 options**
  Cat5e is suitable for Gigabit ethernet networks (1000BASE-T), with CAT6 being suitable for use on 10-Gigabit networks (10GBASE-T)
- **Reduced cross talk**
  4 unshielded twisted pairs (UTP) of solid copper core, ensuring networking distances can be achieved in accordance with ANSI TIA/EIA 568
- **UV resistant**
  Duct cable can be laid in external areas exposed to daylight, without deterioration or break-up over time
- **Low, Smoke, Zero Halogen**
  For use in confined spaces or low ventilation areas. Cable is designed to minimise toxic fumes should it become burnt
- **Consistency of specification**
  All cables carry a unique identifier showing batch, date of manufacture and metres remaining in the box

Test Equipment & Tools

VTMPRO

SPECIFICATION

- **Multi Protocol telemetry output**
  With over 20 different manufacturers' telemetry protocols installed, the VTMPRO can test and control the vast majority of domes on the market
- **CAT5e Cable tester**
  A significant number of CCTV installations are now fed over CAT5e cable. This built in tester allows the confirmation of cable continuity and correct wiring configuration
- **Long battery life**
  Up to 12 hours continuous use can be achieved from a 3 hour charge, allowing the engineer to operate all day without time consuming recharging
- **Fibre Optic Signal Strength meter**
  The inclusion of the Fibre Optic Signal Strength meter means that, even on the most advanced systems, engineers will have the ability to test for the presence of faults and identify.
- **DVM Digital Volt Meter**
  The inclusion of the Digital Volt Meter means that all an engineer requires for testing, fault finding and commissioning is included in one handy robust unit

Product Name	Product Code	Description
VTMPRO	0472590	Test monitor and cable tester
VTM04C	0310580	4" colour test monitor
HUMV	0472580	Ground loop isolation transformer (analogue)
VESP1	0481030	Ethernet surge protector (PoE)

VESP1 OVERVIEW

The VESP1 provides unidirectional surge protection to hardware on up to Gigabit networks and is ideal for use in any networked CCTV, Access Control or Intruder Alarm system. The VESP1 provides additional protection for expensive or mission-critical hardware on a network. Each VESP1 comes with simple RJ45 connections and a 140mm earth lead for easy bonding. Metal cased with integrated mounting feet, it is ideal for internal use, but can be used externally when fitted inside a suitable weatherproof enclosure.

SPECIFICATION

- **Total cable protection**
  All 8 cores are protected up to 10KA (10,000 Amps), including those networks supporting PoE devices
- **Simple, quick connection**
  The RJ45 connections allow near immediate protection of equipment against surges caused by lightning and power grid fluctuations
- **No data loss**
  Suitable for use on Gigabit networks with no loss in data speed
- **Metal cased**
  The metal cased design increases EMI suppression and has integrated feet to allow easy mounting
- **Earth lead**
  A pre-fitted 140mm earth lead makes for an easier connection to the earth bond

Video Distribution Amplifiers – VVDA

VVDA

Product Name	Product Code	Description
VVDA104	0346300	1 in 4 out or 1 in 8 out, Video Distribution Amplifier (VDA)
VVDA204	0315900	2 in 4 out or 1 in 8 out, Video Distribution Amplifier (VDA)
VVDA408	0315890	2 in 4 out or 4 in 2 out, Video Distribution Amplifier (VDA)
VVDA-SRM	0379990	Single rack mount kit for VVDA
VVDA-DRM	0379980	Double rack mount kit for VVDA

SPECIFICATION

- **Quality image reproduction**
  The VVDA range provides high quality signal reproduction to ensure that no loss of image quality is suffered upon video distribution. The VVDA408 model benefits from individual input linear gain, which amplifies weaker signals to the required output standard for high quality video. This is particularly useful for long cable runs
- **Video loss detection**
  The operator is immediately notified of any loss of video signal, allowing prompt action to be taken
- **Flexible input/output options**
  Installers can choose between 1, 2 & 4 video inputs and with 2, 4 & 8 video outputs, allowing flexible configuration of units to suit site specific requirements
- **Easy to install and set-up**
  A series of very simple steps makes the unit very easy to integrate into virtually any system

Bracketry

FIXED DOMES & BULLETS (VFD, VFDA, VVRD & VBC)

Product Name	Product Code	Description
VFDS-IWMB/W	0444930	Internal wall mount bracket for VFD, white
VFDS-IWMB/B	0444940	Internal wall mount bracket for VFD, black
VFDA-IWMB/W	0656110	Internal wall mount bracket for VFDA (not U) & VK2-VFD, white
VFDA-IWMB/B	0656120	Internal wall mount bracket for VFDA (not U) & VK2-VFD, black
VFDS-IPMB/W	0155090	Internal pendant mount bracket 1500mm drop for VFD, white
VVRD/VPL7-SPACER	0498380	Solid ceiling spacer for VVRD & VK2-VRD, RAL7035
VVRD-EWMB1	0479030	External wall mount bracket for VVRD & VK2-VRD, RAL7035
VRD-EWMB	0498930	External wall mount bracket for VVRD & VK2-VRD, RAL7035
VPL-EWMB/PSU	0442910	External wall mount bracket/24VAC PSU for vandal style domes, RAL7035
VDM-ECMA	0457230	External corner mount adaptor (for use with VRD-EWMB), RAL7035
VRD-EPMB	0498940	External pendant mount bracket 500mm drop for VVRD & VK2-VRD, RAL7035
VDM-IPMCA	0276270	Internal pendant mount ceiling adaptor, RAL7035
VDM-IPMGA	0291100	Internal pendant mount girder adaptor, RAL7035
VDM-2MP	0276240	2m pole, RAL7035
VDM-C	0276250	Coupler to join VDM-2MP together, white+
VFDS-IPMA	0300860	Internal pendant mount adaptor for VFD, RAL7035
VFDAS-IPMA	0496980	Internal pendant mount adaptor for VFDA & VK2-VFD, RAL7035
VPL-IPMA	0291180	Internal pendant mount adaptor for VVRD & VK2-VRD, RAL7035
VDM-EPMAg	0457240	External pole mount adaptor (for use with VPL-EWMB only), RAL7035
VRD-TM	0498950	Tower mount swan neck bracket for VVRD & VK2-VRD, RAL7035
VRD-TMJB	0690220	Tower mount swan neck bracket with integral junction box for VVRD & VK2-VRD, RAL7035
VBC-EPMA/B	0496990	External pole mount adaptor for VBC & VK2-BIR, black

BOX CAMERAS (VPC5 & VZM)

Product Name	Product Code	Description
PROTOSB1	0032870	5.5" wall/ceiling bracket for box cameras, RAL7035
PROTOSB2	0032840	7.5" wall/ceiling bracket for box cameras, RAL7035
VB1B	0032650	5.5" wall/ceiling bracket for box cameras, black
VB1W	0032630	5.5" wall/ceiling bracket for box cameras, white
VB2B	0032670	7.5" wall/ceiling bracket for box cameras, black
VB2W	0032660	7.5" wall/ceiling bracket for box cameras, white
VCMB	0033110	6.8" cable managed wall/ceiling, RAL7035
VCBW	0032720	190mm drop ceiling bracket for box cameras, white

PTZ (VPL7)

Product Name	Product Code	Description
VVRD/VPL7-SPACER	0498380	Solid ceiling spacer for VPL7-WP-SM, RAL7035
VPL-SM-FM	0497090	Flush mount bracket for VPL7-WP-SM, RAL7035 trim
VVRD-EWMB1	0479030	External wall mount bracket for VPL7-WP-SM, RAL7035
VRD-EWMB	0498930	External wall mount bracket for VPL7-WP-SM, RAL7035
VPL-EWMB/PSU	0442910	External wall mount bracket / 24VAC PSU for VPL7-WP-SM, RAL7035
VPL-EWMBe	0498960	External wall mount bracket for VPL7-WP-PM, RAL7035
VDM-ECMA	0457230	External corner mount adaptor (for VRD-EWMB & VPL-EWMBe), RAL7035
VRD-EPMB	0498940	External pendant mount bracket 500mm drop for VPL7-WP-SM, RAL7035
VPP-IPMB250	0472170	Internal pendant mount bracket 250mm drop for VPL7-WP-PM, RAL7035
VPP-IPMB500	0472180	Internal pendant mount bracket 500mm drop for VPL7-WP-PM, RAL7035
VPP-IPMB1000	0472190	Internal pendant mount bracket 1000mm drop for VPL7-WP-PM, RAL7035
VPP-IPMB2000	0472200	Internal pendant mount bracket 2000mm drop for VPL7-WP-PM, RAL7035
VDM-IPMCA	0276270	Internal pendant mount ceiling adaptor, RAL7035
VDM-IPMGA	0291100	Internal pendant mount girder adaptor, RAL7035
VDM-2MP	0276240	2m pole, RAL7035
VDM-C	0276250	Coupler to join VDM-2MP together, white
VPL-IPMA	0291180	Internal pendant mount adaptor for VPL7-WP-SM, RAL7035
VPP-IPMA	0472160	Internal pendant mount adaptor for VPL7-WP-PM, RAL7035
VDM-EPMAg	0457240	External pole mount adaptor (for VRD-EWMB & VPL-EWMBe), RAL7035
VRD-TM	0498950	Tower mount swan neck bracket for VPL7-WP-SM, RAL7035
VRD-TMJB	0690220	Tower mount swan neck bracket with integral junction box for VPL7-WP-SM, RAL7035
VPP-TM	0470440	Tower mount swan neck bracket for VPL7-WP-PM, RAL7035
VDM-TMJB	0690320	Tower mount swan neck bracket with integral junction box for VPL7-WP-PM, RAL7035

Bracketry (continued)

PTZ (VP-960H & VK2-1080XPTZ)

Product Name	Product Code	Description
Internal mounting of camera module only		
VDM-ICM/B	0498730	In ceiling mount, black trim
VDM-ICM/C	0697360	In ceiling mount, cream trim
VDM-ICMD/C	0697370	In ceiling mount, cream trim, smoked bubble
Fitting the camera module into a VDM-EXTHSG housing:		
VDM-EXTHSG/C	0498720	IP66 pendant mount housing & clear IK10 bubble (53W @ 24VAC)
VDM-EXTHSG/S	0680960	IP66 pendant mount housing & smoked bubble (53W @ 24VAC)
VP-960H-Standoff	0711330	Analogue camera module spacers & screws
VK2-1080XPTZ-Standoff	0711340	IP camera module spacers & screws
Camera module fitted in VDM-EXTHSG or VK2-1080XIRPTZ		
VPL-EWMBe	0498960	External wall mount bracket, RAL7035
VDM-ECMA	0457230	External corner mount adaptor (for use with VPL-EWMBe only), RAL7035
VPP-IPMB250	0472170	Internal pendant mount bracket 250mm drop, RAL7035
VPP-IPMB500	0472180	Internal pendant mount bracket 500mm drop, RAL7035
VPP-IPMB1000	0472190	Internal pendant mount bracket 1000mm drop, RAL7035
VPP-IPMB2000	0472200	Internal pendant mount bracket 2000mm drop, RAL7035
VDM-IPMCA	0276270	Internal pendant mount ceiling adaptor, RAL7035
VDM-IPMGA	0291100	Internal pendant mount girder adaptor, RAL7035
VDM-2MP	0276240	2m pole, RAL7035
VDM-C	0276250	Coupler to join VDM-2MP together, white
VFDAS-IPMA	0496980	Internal pendant mount adaptor for VP-960 & VK2-1080XPTZ camera module, RAL7035
VPP-IPMA	0472160	Internal pendant mount adaptor, RAL7035
VDM-EPMAg	0457240	External pole mount adaptor (for use with VPL-EWMBe only), RAL7035
VPP-TM	0470440	Tower mount swan neck bracket, RAL7035
VDM-TMJB	0690320	Tower mount swan neck bracket with integral junction box, RAL7035

MONITORS (VFS - VESA mounting)

Product Name	Product Code	Description
VESAWM	0498620	Fixed wall mount VESA 75/100, up to 15Kg, black
VESA200	0444040	Fixed wall mount VESA 75/100/200x100, up to 30Kg, black
VESAWMPT	0498630	Pan and tilt wall mount VESA 75/100, up to 15Kg, black
VESAWMPTE	0498640	Pan and tilt extended arm (250mm) wall mount VESA 75/100, up to 15Kg, black
VFSM/VESA/CB	0093650	Ceiling mount, 1000mm drop VESA 75/100, up to 15Kg, black
VFSM/VESA/CC	0098100	Ceiling mount, 1000mm drop VESA 75/100, up to 15Kg, cream
VFSM/VESA/WB	0096570	Wall mount, 1000mm drop VESA 75/100, up to 15Kg, black
LCD-IPMCA	0251750	Internal pendant mount ceiling adaptor, black
LCD-IPMGA	0249130	Internal pendant mount girder adaptor, black
VCBEL2M	0092210	2m pole, chrome
VESAPA1	0264980	Single monitor mount, VESA 75/100, black
VESAPA2	0264990	Dual monitor mount, VESA 75/100, black

Bracketry - Fixed Domes & Bullets

	Solid Ceiling Mount	False Ceiling Mount	Wall Mount	Corner Mount	Pendant (fixed length)	Pendant (adj. length)	Side Pole Mount	Swan Neck
VFD (Internal only) 	Surface as standard	-	VFDS-IWMB/W (0444930) White or VFDS-IWMB/B (0444940) Black 	-	VFDS-IPMB/W (0155090) length 1500mm White 	VDM-IPMCA (0276270) Ceiling adaptor or VDM-IPMGA (0291100) Girder adaptor + VDM-2MP (0276240) 2m pole If longer than 2m is required then 2nd VDM-2MP & VDM-C (0276250) coupler is required + VFDS-IPMA (0300860) or VFDAS-IPMA* (0496980) or VPL-IPMA (0291180) 	-	-
VFDA28V12 VK2-VFD (E & F) 	Surface as standard	-	VFDA-IWMB/W (0656110) White or VFDA-IWMB/B (0656120) Black 	-	-		-	-
VVRD960H VK2-VRD 	Surface as standard VVRD/VPL7-Spacer (0498380) Spacer can be used to hide connections 	-	VVRD-EWMB1 (0479030) or VRD-EWMB (0498930) or VPL-EWMB/PSU (0442910) 	VRD-EWMB (0498930) + VDM-ECMA (0457230) 	VRD-EPMB (0498940) length 500mm 		VRD-EWMB (0498930) + VDM-EPMAg (0457240) 	VRD-TM (0498950) or VRD-TMJB (0690220) with integral junction box
VBC VK2-BIR (E & F) 	All, except: VBC28V12DN960H VBC5V50DN960H VK2-1080BIR3V9F	-	All bullets include wall bracket	-	-	-	VBC-EPMA/B (0496990) Black 	-

All bracketry is RAL7035 unless otherwise stated

**not VK2-1080VFDIR37E*

Bracketry - PTZ (VPL7)

	Solid Ceiling Mount	False Ceiling Mount	Wall Mount	Corner Mount	Pendant (fixed length)	Pendant (adj. length)	Side Pole Mount	Swan Neck
VPL7-WP-SM	Surface as standard VVRD/VPL7 Spacer (0498380) Spacer can be used to hide connections	VPL-SM-FM (0497090)	VVRD-EWMB1 (0479030) or VRD-EWMB (0498930) or VPL-EWMB/PSU (0442910)	VRD-EWMB (0498930) + VDM-ECMA (0457230)	VRD-EPMB (0498940) length 500mm	VDM-IPMCA (0276270) Ceiling adaptor or VDM-IPMGA (0291100) Girder adaptor + VDM-2MP (0276240) 2m pole If longer than 2m is required then 2nd VDM-2MP & VDM-C (0276250) coupler is required + VPL-IPMA (0291180) or VPP-IPMA (0472160)	VRD-EWMB (0498930) + VDM-EPMAg (0457240)	VRD-TM (0498950) or VRD-TMJB (0690220) with integral junction box
VPL7-WP-PM	-	-	VPL-EWMBe (0498960)	VPL-EWMBe (0498960) + VDM-ECMA (0457230)	VPP-IPM250 (0472170) length 250mm or VPP-IPM500 (0472180) length 500mm or VPP-IPM1000 (0472190) length 1000mm or VPP-IPM2000 (0472200) length 2000mm		VPL-EWMBe (0498960) + VDM-EPMAg (0457240)	VPP-TM (0470440) or VDM-TMJB (0690320) with integral junction box

All bracketry is RAL7035 unless otherwise stated

Bracketry - PTZ (VP-960H & VK2-1080PTZ)

	Solid Ceiling Mount	False Ceiling Mount	Wall Mount	Corner Mount	Pendant (fixed length)	Pendant (adj. length)	Side Pole Mount	Swan Neck
VP-960H VK2-1080PTZ camera module only 	Surface as standard	VDM-ICM/B (0498730) Black or VDM-ICM/C (0697360) Cream or VDM-ICMD/C (0697370) Cream with Smoked bubble	-	-	-	VDM-IPMCA (0276270) Ceiling adaptor or VDM-IPMGA (0291100) Girder adaptor + VDM-2MP (0276240) 2m pole If longer than 2m is required then 2nd VDM-2MP & VDM-C (0276250) coupler is required + VFDAS-IPMA (0496980)* or VPP-IPMA (0472160) 	-	-
VP-960H VK2-1080PTZ in VDM-EXTHSG or VK2-1080XIRPTZF 	-	-	VPL-EWMBe (0498960) 	VPL-EWMBe (0498960) + VDM-ECMA (0457230) 	VPP-IPM250 (0472170) length 250mm or VPP-IPM500 (0472180) length 500mm or VPP-IPM1000 (0472190) length 1000mm or VPP-IPM2000 (0472200) length 2000mm 		VPL-EWMBe (0498960) + VDM-EPMAg (0457240) 	VPP-TM (0470440) or VDM-TMJB (0690320) with integral junction box

All bracketry is RAL7035 unless otherwise stated

** The correct stand off kit will be required to mount the camera module*

Bracketry - Monitors (VESA mounting)

Flush / Fixed Mount	Tilt & Turn	Pendant (fixed length)	Pendant (adj. length)
VESAWM (0498620) VESA 75/100, Up to 15Kg or VESA200 (0444040) VESA 75/100/200x100, Up to 30Kg 	VESAWMPT (0498630) VESA 75/100 Up to 15Kg or VESAWMPTE (0498640) VESA 75/100, extended wall bracket (250mm) Up to 15Kg 	VFSM/VESA/CB (0093650) VESA 75/100, Ceiling mount, 1m drop or VFSM/VESA/CC (0098100) VESA 75/100, Ceiling mount, 1m drop, Cream or VFSM/VESA/WB (0096570) VESA 75/100, Wall mount, 1m drop (shown) 	LCD-IPMCA (0251750) Ceiling adaptor or LCD-IPMGA (0249130) Girder adaptor + VCBEL2M (0092210) 2m pole, chrome + VESAPA1 (0264980) VESA 75/100 single monitor or VESAPA2 (0264990) VESA 75/100 dual monitor

All bracketry is Black unless otherwise stated

VNPR Site Survey Questionnaire

This document is to assist in producing a quote for a Vista Number Plate Recognition System by first explaining how to fill in the questionnaire and the questionnaire itself.

The guide is in three parts:

- Lane Information
- System Information
- Survey Form

A site visit is essential to ensure that the correct location for the cameras is found and pointed out to the customers.

Ensure vehicles as far as possible approach the cameras with the plate head on to the camera. Also ensure that no obstacles are in the line of sight i.e. parking for vehicles, skirts on barriers etc.

LANE INFORMATION

The Lane information is to be completed for each lane to be monitored.

- Will the site be monitored 24/7?
- What is the preferred mounting for the VNPR camera?
- What is the maximum speed of the vehicles? If barriers are used ask if the barriers are ever opened at busy times?
- Make sure you are not just given the speed limit of the area.
- Type of lane i.e. Entry lane / Exit lane.
- Traffic flow i.e. is the traffic free flowing or tailgating?
- Is an overview camera required for this lane? If so what is it to display?
- Does the VNPR system on the lane have to interface to a third party device i.e. weighbridge, under vehicle scanning? If so please provide make, model and technical contact for the product with a brief overview of the required integration.
- Is the VNPR on this lane to be triggered i.e. to capture vehicles with no number plates or silver on black plates?

SYSTEM INFORMATION

- How many lanes in total are there?
- How many vehicles are there per day?
- How long are the images to be stored?
- Is this to interface with the police? Via a BOF2 interface (Back Office) or will the police provide a CD hotlist?
- Is the system to alarm? Via audible alarm, e-mail, SMS or Pop up box at an IP address?
- Is the system to count vehicles in a car park & allow different access to different groups?
- Is there any requirements not covered by the standard software?
- Where is the system to be controlled from, and what do they want to do at each of these points?

VNPR Site Survey Questionnaire (continued)

AIDS TO QUOTATION

The Lite system has been designed with a barrier system in mind, and is provided as a tower PC, a video capture card and relay card. You need only to add a monitor and speakers to complete the system.

THE VNPR LITE SYSTEMS ARE NOW PROVIDED IN THE FOLLOWING CONFIGURATIONS:

- VNPR111Le
- VNPR211Le
- VNPR311Le
- VNPR411Le

The software is preinstalled and the unit can be configured either as a standalone unit or network client as standard.

Providing the customer required no more than 1 VNPR camera and 1 overview camera per lane simply choose the appropriate part code for the number of lanes you require.

If the units are to be networked you will also require a VNPRLITESERVER, this will act to concatenate all the connected lanes and display them on a single PC. The VNPR server is provided complete with Windows server software and will allow the following maximum connections.

- 5 client PCs
- 20 lanes
- 5,000 transactions per hour
- Whichever limit is reached first

The customer will need to provide the network with network accessories such as KVM switchers, hubs, switches etc. For all server-based systems it is STRONGLY advised to take out our software maintenance. This is where online network support is given to the system via ADSL.

VNPR Site Survey Form

Lane Details				
Lane Number	**1**	**2**	**3**	**4**
Type of Lane *i.e. Entry or Exit*				
Width of Lane In metres *(Maximum 3 metres per VNPR camera)*				
Camera Mount *i.e. Wall / Pole / Clamp / Bollard*				
Distance camera to capture point *In Metres*				
VNPR Cameras *e.g. VNPR Bollard, VNPR only (VNPRCe) or VNPR with Overview (VNPRCDe)*				
Function of overview camera (if specified) *Overview camera function – driver / vehicle / other please state*				
Speed of Vehicles *e.g. Stopped, 20mph, 25mph, 30mph, 70mph, 100mph*				
Interface to open/close barrier *Relay card required / not required*				
Interface to external LED sign *LED required / not required*				
Interface to Access Control system *Not required / Interface to xxxx access control system required*				
Interface to other equipment *Not required / Interface to xxxx required*				

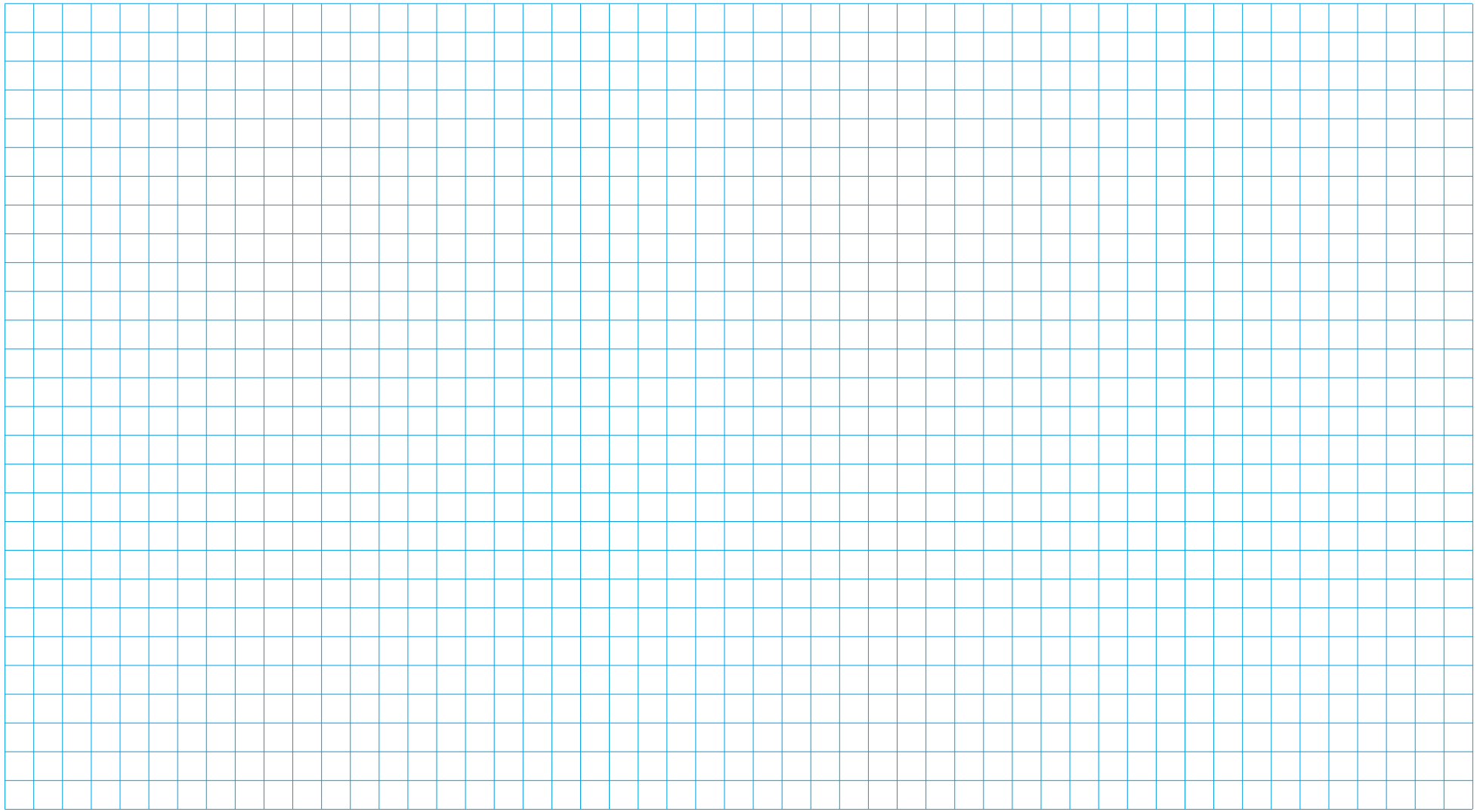
If total number of cameras exceed 8 please contact Vista

Controller Details				
Number of vehicle transactions per day				
Picture Storage Requirements *Plate Text /Plate Patch / VNPR Camera / Overview Camera / All*				
Storage Requirements *Number of days storage required before overwritten*				
Interface to existing database *Not required / Interface to xxxx required*				
Bespoke Software *Not required / The following additions xxxxxxx are required*				
Control Options *If dial in products, network products or multiple control positions are required please contact Vista*				

Options: Remote dial in / Stream Network / Book Database / Journey Time Management Speed / Analysis / Car Park Count / Alarm / Watch / SMS

VNPR Site Survey Form (continued)

SKETCH SITE



Other Notes

Flexibility by Design™

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